



GAZETTE OF THE REGULAR

AND VOLUNTEER FORCES.

WHOLE NUMBER 81.

NEW YORK, SATURDAY, MARCH 8, 1879.

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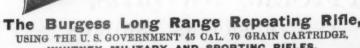
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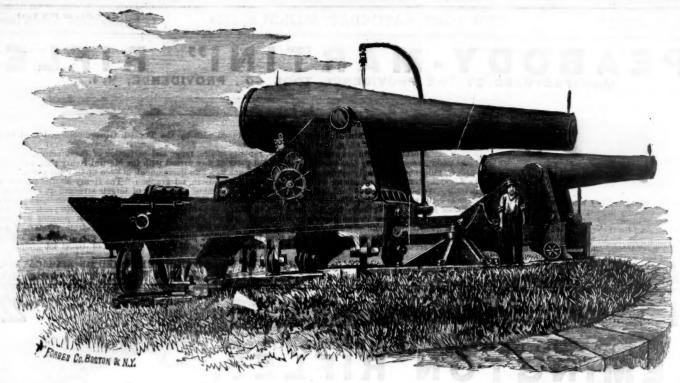
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WORKS-South Boston.

The above illustration is from a photograph taken at Sandy Hook, of the 10-inch and 121-inch experimental rifles, manufactured by the South Boston Iron Co. for the United States Government.

The report of the test firing is recorded in the report of the Chief of Ordnance for 1878, where Gen. Bénet states that they have proved more powerful than guns of like calibre, produced at the famous works of Krupp and Armstrong, in Europe.

Europe.

The Constructor of Ordnance, U. S. A., says to the South Beston Iron Co. under date of Nov. 8, 1878: "The association of your foundry with the United States Ordnance Department has been so long, and the product you have furnished—more especially in your line of the heaviest ordnance—gives such continued satisfaction, that I have no hesitation in assuring you, that you have the entire confidence of the Ordnance Department in the executing of any work of this character entrusted to your execution." "And I venture to assert that your production of cast iron for gun construction cannot be excelled either here or abroad." "We are now sufficiently far advanced in experiments to confidently go to work with a view of introducing guns of the largest calibre, and of equal power to any of those that are fabricated in the work shops of the governments of Europe; also the celebrated private manufacturers of Essen (Krupp), Armstrong, Whitworth and Firth." "The table of 'powers' will show that our ordnance—as far as developed, calibre for calibre—have equal powers at least with those of Europe." "Their endurance, as far as tested, (see reports of the Chief of Ordnance, U. S. A., of 1874, 1875, 1876, and 1877), are all that could be desired."

Kind of gun.	988	guns.	bore.	powder.	shot.	Muzzle velocity.	per []"	Energy per inch of shot's circumference, at-						
	Calibre. Inches.	Weight of gr	2 .	Charge of po	1		Pressure per of bore. Por	Muzzle, Foot-tons.	1,000 yards. Foot-tons.	2,000 yards. Foot-tons.	3,000 yards. Foot-tons.	4,000 yards. Foot tons.		
English M. L. Wrought iron,	12	35	162.5	110	700	1300	52,864	217.7	184	157.5	136 4	194 0		
talian B. L. Steel steel-	12	35.30	227.167	110	664	1329	29,106	215.8			130 9			
hooped	12.6	37	252	110	770	1220	19,845	200 8	171.4	147.9	130.2	113.4		
wrought iron tube	12.25	40	227	110	700	1403	31,750	248.4	205 8	173.2	147.9	127.7		
steel tube	10 10	18 19.44	145,5 169,6	70 66	400 374	1364 1426	47,040	164.3 167.9	132.9 132.7	109.7 107.5	92 9 88 6	78.4 74.6		
hooped	9.448	17	157.5	66	330	1426.8	32,000	157	123 7	99.6	82.4	69.2		
hooped, and tubed merican M. L. Cast-iron,	9.499	13.8	162,55	61.74	317.6	1427		150	117	93.8	76.8	64		
wrought iron tube	10	18	147.22	70	400	1381	22,600	168.4	135.6	111.8	93 8	79.7		

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WHOLE NUMBER 31

NEW YORK, SATURDAY, MARCH 8, 1879.

SIX DOLLARS PER YEAR.

Publication Office, 245 Broadway. SUBSCRIPTION, SIX DOLLARS A YEAR.

THE ARMY.

RUTHERFORD B. HAYES, President and Com'der-in-Chief. George W. McCrary, Secretary of War.

W.T. Sherman, General of the Army of the United States Washington, D.C. Brig.-Gen. E. D. Townsend, Adjt.-General.

By direction of the Secretary of War, the following Circular, issued, for the instruction of Indian agents, from the office of the Commissioner of Indian Affairs, and applicable to cases of the selling or giving of spirituous liquor to Indians under the charge of any Indian superintendent or agent, in any locality, whether or not the same may be "Indian country," is hereby published for the information of the Army:

DEPT. OF THE INTERIOR, OFFICE INDIAN AFFAIRS, WASHINGTON, March 30, 1878.

Dept. of the Interior, Office Indian Affairs, Washington, March 30, 1878.

Civilization, 1878. Circular No. 13.

Sir: Your attention is called to the provisions of Section 2139, U. S. Revised Statutes, in relation to the suppression of the traffic in intoxiesating liquors. By the act of Feb. 13, 1882, it was made a crime, punishable by fine and imprisonment, to sell liquors to Indians under the care of a superintendent or agent, whether on off their reservations; and the constitutionality of this law was affirmed by the Supreme Court in 1865. On the revisions of the laws in 1873-74 this law was changed so that its penalties could only apply to persons found guilty of selling liquor to Indians on their reservations; but an act, approved Feb. 27, 1877 (U. S. Statutes, vol. 10, page 244), restores the provisions of the law of 1882 by striking out of section 2139 the words "except to an Indian, in the Indian country," so that persons who now engage in the liquor traffic with Indians, no matter in what locality, or who give it to them, are liable to a penalty of three hundred dollars and two years imprisonment.

Having, therefore, the power to break up to a great extent this demoralizing traffic, you are expected to use the utmost vigilance in enforcing the penalties of the law agames all persons who engage in it with the Indians under your charge, whether this is done on or off the reservation.

When persons are detected in a violation of the law their cases should be absent in the law their cases.

in it with the indians under your charge, whether are or off the reservation.

When persons are detected in a violation of the law their cases should be placed in the hands of the District Attorney for the district wherein the crime was committed, in order that they may be promptly arrested tried, and punished; and you will co-operate with that officer in his efforts to convict the guilty parties, furnishing him with the requisite evidence and all the facts that you may be able to obtain for the purpose indicated. You will also observe that Indians are competent witnesses in these cases. (See Section 214), U. S. Revised Statutes.) Very respectfully, Commissioner.

All officers of the Army, especially those acting as Indian agents, are instructed to observe the directions in the last paragraph of the above Circular, and to cooperate with the District Attorneys as there indicated (G. O. 8, Feb. 25, H. Q. A.)

By direction of the Secretary of War, St. Louis Bks, Mo., now used as a clothing and equipage Depot, will hereafter be officially known and designated as the St. Louis Clothing Depot (G. O. 9, Feb. 26, H. Q. A.)

By direction of the Secretary of War, the second paragraph of G. O. 73, H. Q. A., June 16, 18%, is amended so as to read as follows: Flags and post guard report books needed strictly for por garrison purposes, and spades, shovels, axes, hatchets, pickaxes and broome, required for the police of the post, may be issued by the Post Quartermaster, on special requisition approved and of dered by the commanding officer, and will be receipted for by the officer making the requisition. Articles thus drawn and receipte for may be dropped by the Quartermaster from his returns, his responsibility for them thereafter ceasing. Articles other than the brein enumerated are to be accounted for under the general regulations relating to accountability for public property (G. O. 1 March 4, H. Q. A.)

The following Acts of Congress are published for the information and gov rnment of all concerned:

An Act for the relief of James Clift, late Captain 5th Tennessee Cavalry.

(Gives him the full amount of pay and emoluments as a 1st lieutenant of cavalry commanding company, from Sept. 19, 1863, to March 26, 1864.)

Approved Feb. 15, 1879.

II. An Act for the relief of Francis O. Wyse.

II. An Acr for the relief of Francis U. wyse.

Be it enocyted by the Senate and House of Representatives of the
United States of America in Congress assembled, That the Secreplace on the list of retired officers of the United States Army the
name of Francis O. Wyse, as retired liettenant-colonel of the Army the
Regiment of United States Artillery: Proclude, however, That he
shall receive no pay compensation or allowance of any kind under
the provisions of this act for the time intervening between the 25th the provisions of this act for the time intervening betwee day of July, 1863, and the date of the approval of this a Approved Feb. 19, 1879. (G. O. 12, March 5, H. Q. A.)

STAFF CORPS AND DEPARTMENTS.

Major Lawrence S. Babbitt, Ord. Dept., Act. Chief Engineer Officer, will proceed to Olympia, W. T., carrying out the verb d instructions of the Dept. Commander (S. O. 16, Feb. 10, D. C.)

Major Michael P. Small, C. S., will proceed to Omaha, Neb., on public business (S. O. 16, Feb. 26, M. D. M.)

Omaha, Neb., on public business (S. O. 16, Feb. 26, M. D. M.)

So much of S. O. 16, Jan. 20, 1879, from this office, as relates to Major William Myers, Q. M., is revoked. Major Myers will, upon the expiration of his present leave of absence, or prior to that date if he shall desire to relinquish his leave, report to the Lieutenant General, comd'g Mil. Div. of the Mo., for duty (S. O., Feb. 26, W. D.)

26, W. D.)
Major Thomas C. Sullivan, C. S., will, in addition to his present duties as Chief C. S. Dept. of the Columbia, perform the duty of Purchasing Commissary at Portland, Ore. (S. O., March 4, W. D.)
So much of S. O. 112, of Dec. 31, 1878, from these Hdqrs, as directs Capt. Edwin B. Atwood, Asst. Q. M., to report to the Comd'g Gen. Dept. of Dakots, is revoked. Capt. Atwood will report to the Comd'g Gen. Pept. of Texas, for assignment to duty at Fort Concho,

Texas, relieving Capt. Nathaniel S. Constable, Asst. Q. M., who is relieved at his own request. Capt. Constable will report to the Comd'g Gen. Dept. of Dakots, for duty (S. O. 14, Feb. 24, M. D. M.)

Before a General Court-Martial which convened at Camp Grant, A. T., Nov. 11, 1878, of which Colonel James Oakes, 6th Cavalry, is president, was arraigned and tried—Assistant Surgeon R. L. Rosson, U. S. A. Charge—"Conduct unbecoming an officer and gentleman." Five specifications allege various dishonest transactions; another alleges an improper statement in the presence of several officers and civilians," and the 7th and last alleges that the accused "being on duty at Camp Thomas, A. T., did, to the scandal and disgrace of the Service, visit a house of public prostitution and dance house, situated on the outskirts of said camp, and did then and there, in the public dance hall of said house, publicly dance with enlisted men and prostitutes in the presence of (and well known to) civilians and enlisted men stationed at said camp." Dr. Rosson was found guilty upon all the specifications and sentenced "To be dismissed from the service of the United States." The sentence is confirmed, and will take effect March 23, 1879, from which date he will cease to be an officer of the Army (G. C.-M. O. 13, Feb. 25, H. Q. A.)

PAYMENT OF TROOPS.

Major P. P. G. Hall, P. D., will pay the troops stationed at Camp M₁jave, A. T., to include the muster of Dec 31, 1878 (S. O. 16, Feb. 10, D. A.)

The following assignment of Paymasters to ray the troops in this Dept., for the muster of Feb. 28, 1849, is made, viz: For the post of Fort Omaha, Neb., Major H. C. Prait, P. D.; for the posts of Forts Douglas and Cameron, Utah, Fort Hall, Idaho, and Fort Washakie, W. T., Major T. H. Stanton, P. D.; for the posts of Forts Sanders and Fred. Steele, W. T., Major R. D. Clarke, P. D.; for the posts of Forts Har suff. McPherson, Sidney, and Robinson, and Camp Sheridan. Neb, Major H. G. Thomas, P. D.; for the posts of Fort D. A. Russell, Camp at Cheyenne Depot, and Forts Laramie, Fetterman, and McKinney, W. T., Maj. Joseph W. Wham, P. D. (S. O. 18, Feb. 20, D. P.)

ANNULLED.

The contract of A. A. Surg. B. G. McPauli is annulled, at his own request, to date from the 13th inst. (S. O. 17, Feb. 12, D. A.)

NON-COMMISSIONED OFFICERS, ETC.

NON-COMMISSIONED OFFICERS, ETC.

Ord. Sergt. Richard Brown is relieved from duty at Fort D. A. Russell, Wy. T., and will proceed to Fort Duncan, Texas, for duty; Ord. Sergt. Cornelius Kelly is relieved from duty at Fort Leavenworth, Kas, and will proceed to Fort Griffin, Texas, for duty (S. O. 15, Feb. 25, M. D. M.)

So much of Par. 7, S. O. 38, Feb. 15, 1879, from this office, as directs Com. Sergt. Wm. E. B. Levy to proceed to Fort Monroe, Va., 1s revoked, and he will proceed to the Washington Arsenal, D. C., for duty (S. O., Feb. 28, W. D.)

Hosp. Stewd. S. L. Niles is relieved from duty in the Dept. of the South, and will report at the Hdqrs. Dept. of the East for duty (S. O., March 1, W. D.)

Com. Sergt. James M. Hill is relieved from duty at Alcairez Island, Cal., and will proceed to Fort Whipple, A. T., for duty, relieving Com. Sergt. Rudolph Richter, who will proceed to Alcatraz Island, Cal., for duty (S. O., March 3, W. D.)

Com. Sergt. John Burke will report to the C. O. Fort Lyon, Col., for duty at that post, to relieve Com. Sergt. William Minser, who will proceed to the new post on the south side of the North Fork of the Canadian River, for duty (S. O., Feb. 27, W. D.)

So much of S. O. 15, c. s., from these Hdqrs, as relates to Ord. Sergt. Cornelius Kelly is revoked. Ord. Sergt. Gervas Loesch is relieved from duty at Fort Hays, Kas., and will proceed to Ft. Griffin, Texas, for duty (S. O. 20, March 3, M. D. M.)

THE LINE.

18T CAVALRY, Colonel Cuvier Grover.—Headquarters, and B. D. F. K. M. Fort Walla Walla, Wash. T.; A. R. Camp Harney, Ore.; C. Camp Bidwell, Cal.; G. Fort Boise, Idaho T.; J. Camp Halieck, Nev.; H. Fort Colville, Wash. T.; L. Fort Elamath, Ore.

Detached Service.—Capt. Camillo C. C. Carr will report to the Supt. Gen. Recruiting Service to conduct a detachment of recruits to the Pacific Coast (S. O., Feb.

detachment of recruits to the Pacific Coast (S. C., Feb. 28, W. D.)

2d Lieut. John Pitcher will report to the Supt. Gen. Recruiting Service to accompany a detachment of recruits to the Pacific Coast (S. O., Feb. 28, W. D.)

Non-Com. Staff.—Ist Sergt. George H. Richmond, Co. A., Ist Cav., will report to the C. O. 1st Cav., Fort Waila Walla, W. T., with a view to his promotion to regimental Sergeant Maj r (S. O. 15, Feb. 8, D. C.)

3ND CAVALRY, Colonel I. N. Palmer.—Headquarters and C. D. G. M. Fort Custer, M. T.; A. B. E. I. Fort Reogh; F. H. E. L. Fort Ellis M. T.

F. H. K. L. Fort Ellis M. T.

ROSTER OF COMMISSIONED OFFICERS 2D CAVALRY.—Headquars, Fort Custer, Mont. T., Lieut.-Col. A. G. Brackett, Cond. C. Fowler, Capt. J. Mix, M.; Capt. E. J. Spaulding, C.; Cap. J. Mix, M.; Capt. E. J. Spaulding, C.; Cap. J. Gregg, D.; 1st Lieut. S. M. Swigert, D.; 1st Lieut. S. J. McClernand, G., Post Adjt.; 2d Lieut. H. apoint, M., Post Cony.; 2d Lieut. F. D. Huntington, D. Fé. Miss, Mont. T. J. Major J. S. Brisbin; Capt. E. Ball, H.; Capt. Tyler, F.; Capt. J. Egan, K.; Capt. R. Norwood, L.; 1st Lieut. M. McAdams, H.; 1st Lieut. F. U. Robinson, R.; 2d Lieut. J. J. Huntington, M. Filler, F. Fort Koogle, D. J.; Maj. M. Balker; Capt. J. T. Palo, B. In arrest; 1st Lieut. M. Brien, B. Adjt.; 1st Lieut. W. F. Clark, E.; Mi Lieut. D. C. Peren, B. Adjt.; 1st Lieut. W. F. Clark, E.; Mi Lieut. D. C. Peren, B. Adjt.; 1st Lieut. W. F. Clark, E.; Mi Lieut. D. C. Peren, B. Adjt.; 1st Lieut. W. F. Clark, E.; Mi Lieut. D. C. Peren.

son, A; 2d Lieut. F. W. Kingsbury, I; 2d Lieut. F. W. Sibley, E. Washington, D. C.: 1st Lieut. F. C. Grugan, F. with Chief Sig. Officer. Newport, Ky.: 1st Lieut. C. Augur, A, A. D. C. to Gen. Augur. Champaign, Ill., 1st Lieut. W. A. Diuwiddle, M. Prof. of Tactics. West Point. N. Y.: 2d Lieut. C. B. Schoffeld, L. A. D. C. to Gen. Schoffeld. Fort Suckling, Minn.: 2d Lieut. L. H. Jerome, H. In arrest. Boston. Mass.: Capt. H. E. Noyes, I, 80 Court St., on G. M. R. S. On Leave: Col. I. N. Palmer, Washington, D.C.; Capt. T. B. Dewees, A. Norristown, Pa.; Capt. E. R. Wells, K. Albuny, N. Y.; Capt. J. N. Wheelan, G; 1st Lieut. S. T. Hamilton, G; 1st Lieut. C. T. Hall, Adjt., I. Emporis, Kas: 1st Lieut. G. C. Doane, L., Q. M.; 2d Lieut. C. F. Roe, B, Paris, France; 2d Lieut. C. B. Hopplin, C.

C. B. Hoppin, C.

SED CAVALEY, Col. Wash. L. Elliott.—Headquarters, and A. B. D. F. Fort Laramie, Wy. T.: I. Fort Fetterman, Wy. T.: C. H. Fort Robinson, Nob.; G. Camp Shoridan. Nob.; K. M. Fort Sidney, Nob.; E. Fort Frod. Steele, Wy. T.; L. Fort McTherson, Nob.

Leave of Absence.—Two mouths, to apply for extension of four months, Capt. Gerald Russell, Fort Sidney. Neb. (S. O. 18, Feb. 28, M. D. M.)

Fort Robinson, Nob.—The following is a copy of a telegram sent by Gen. Crook, Comdg. Dept. of Platte, to Col. Evans, Comdg. 3d Cavalry (which should have appeared before), complimentary to the officers and men of the 3d Cavalry engaged in the Cheyenne outbreak at this post:

Onaha, Neb., Jan. 23, 1879.

To Col. A. W. Evans, Fort Robinson, Neb. ;

To Co. A. W. Eccans, Nort Evolution, Neo.:
Your telegram received. Thank the officers and soldiers for me for the gallantry and energy they have displayed. The charge made by Capt. Wessells upon the Indians in trenches is worthy of the highest praise, and I wish also to say that the behavior of officers and men in trying to save women and children, as well as the fortitude with which they have born the cold, lunger and privations of this week under circumstances more disagreeable than say which have yet presented themselves to our Army, are commendable in the highest degree.

4TH CAVALBY, Col. R. S. Mackenzie.—Headquarters, and A. D. K. L. M. Fort Clark, Tex.; G. H. Fort Reno, Ind. T.; C, Fort Sill, Ind. T.; I, Fort Supply, Ind. T.; E, F, Fort Elliott, Tex.; E, Fort Duncan, Tex.

Ind. T.; C. Fort Sill. Ind. T.; I. Fort Supply, Ind. T.; B. F.
Fort Elliott, Tex.; E. Fort Duncan. Tex.

Detached Service — Capt. T. J. Wint, member, G.
C.-M. Fort Clark, Tex., March 3 (S. O. 39, Feb. 25,
D. T.)

1st Lieut. L. O. Parker will report at these Hdqrs,
by the 6th proximo, to conduct recruits and horses to
Fort Clark, Tex. (S. O. 40, Feb. 27, D. T.)

Buffido Hunt.—On February 19th, Major Sweeney
returned to Fort Reno, I. T., with some eight hundred
Cheyenne Indians. The Major has been out since
early in December last, in command of an escort of the
4th Cavalry, which accompanied these Indians on their
annual winter's buffalo hunt. The Indians behaved
very well, it is said, and although buffalo and game
was very scarce and the roaming of the Indians took
them near several large herds of cattle close to the
western boundary line of the Territory, yet not a complaint has been as yet heard that they interfered with
or took a single head of the cattle.

The Cavalby, Col. W. Merritt.— Headquarters

5TH CAVALEY, Col. W. Merritt.— Headquarters and A. B. D. F. I. M. Fort D. A. Russell, Wy. T.; C. E. K. Fort McKinney, Wy. T.; H. Fort McPherson, Neb.; G. L. Fort Washakie, Wy. T.

Lease Extended.—Lieut.-Col. Eugene A. Carr. Fort McPherson, Neb., one month (S. O. 17, Feb. 27, M. D. M.)

Scouting in the Sand Hills.—The scort of the San

McPherson, Neb., one month (S. O. 17, Feb. 27, M. D. M.)

Souting in the Sand Hills.—The scout of the 5th Cavairy, to which we alluded in the Journal of Feb. 23d, was without result. No Indians were found, and it is more than suspected that the rumors of Indian depredations were circulated by settlers who had beef and hay to sell, or who were frightened into mistaking the crimes of highwaymen for the work of Indians. The Sand Hills, where the scout was made by the battalion of the 5th Cavairy, is an unknown and unexplored country. We are informed that Thornburgh's command last summer, accompanied by an officer from Department Headquarters, and furnished with all the maps which could be obtained, was lost and became so bewildered that the Platter river, to which it wandered, was mistaken for the Snake river. Add to this the fact that, so far as is known, there is no wood in the country where the 5th was ordered, and an idea can be formed of the difficulties attending their expedition into a desert at a season when there is great danger that the troops may at any moment be overwheimed by disaster, such as no command even in that department has met with before.

6TH CAVALRY, Col. James Oakes.—Headquarters and M. Op. Lowell, A. T.; a, G. Camp Grant, A. T.; B, Camp Huschuca, A. T.; C, L, Camp howir, A. T.; E, D, Op. Apacte, A. T.; H, E, Camp Yerde, A. T.; I, Camp HoDowell, A. T.; F, Camp Thomas, A. T.

Detached Service.—The C. O. of the Presidio of San Francisco, Cal., will send to their stations in charge of Capt. Tullius C. Tupper, all the recruits at his post for companies stationed in the Dept. of Arizons (S. O. 18, Feb. 17, M. D. P.)

7TH CAVALRY, Colonel S. D. Sturgia.—Headquar'ers, and A. C. G. H. I. L. Fort A. Lincoln, D. T.; F. K. Port Totten, D. T.; B. D. Fort Yates, D. T.; E. M. Fort Meade, D. T.

D. T.

Revoked.—So much of S. O. 19, from these Hdqrs,
as relates to Capt. Edward G. Mathey, is revoked (8.
O. 21, Feb. 24, D. D.)

Leave Extended.—Capt. Edward G. Mathry, Fort
Totten, D. T., one month (8. O. 19, March 1, M. D. M.)

STH CAVALRY, Col. J. I. Gregg.—Her dquarters and G. H. Fort Ringsold, Texas: C. D. I. L. Fort Brown, Tex.; A. B. K. M. Fort Clark, Tex.; E. San Diego, Tex.; F. Fort McIntosh.

Port McIntosh.

Detached Service. — 2d Lieut. W. J. Elliot will proceed to Washington, D. C. (S. O. 37, Feb. 21, D. T.)

Major A. J. Alexander, Capt. J. F. Randlett, members, G. C.-M. Fort Brown, Tex., March 3 (S. O. 37, Feb. 21, D. T.)

2d Lieut. F. E. Phelps, member, G. C.-M. Blark, Tex., March 8 (S. O. 39, Feb. 25, D. T.)

9TH CAVALRY, Col. Edward Hatch.—Headquarters. Santa Fe. N. M.; I., Fort Silss, Tex.; K., Fort Garland, C. T. F. H., M., Fort Stanton, N. M.; A. B. C. G. Fort Hayard N. M.; S. Fort Union, N. M.; I, Fort Wingate, N. M.; D. Fort Lewis, Colo.

Port Lewis, Colo.

Detached Servics.—Lient. M. B. Hughes will conduct from Fort Union to Fort Craig, N. M., three recruits for Co. I. 9th Cav., to be sent to the company at Ojo Caliente from Fort Craig (S. O. 15, Feb. 24, D. N. M.) 3d Lieut. Henry H. Wright will report to the Supt. Mounted Recruiting Service, to accompany a detachment of recruits to the 9th Cav. (S. O., March 4, W. D.)

10TH CAVALRY, Colonel Benjamin H. Grierson.— Headquarters and D. F. M. Fort Concho, Tex.; A. G. I. Fort Sill, I. T.; C. H. K. Fort Davis, Tex.; B. L. Fort Stockton, Tex.; E. San Felipe, Tex.

1PT ARTILLERY, Col. Israel Vogdes.—Headquarters

and B. E. F. K. Fort Adams, R. I.; I. Fort Warren, Mass.;
C. M. Fort Trumbull, Conn.; H. Fort Freble, Mes.; I. Fort
Independence, Mass.; G. Ft. Mouroe, Va.; A. D. Fort Columbus, N. Y. H.

clough.—A furlough for three months, we not so beyond sea, is granted 1st Sergt. obinson, Bat. F (S. O. 30, Feb. 25, D. E.)

END ARTILLERY.—Colonel William F. Barry.—Headquarters and A. D. M. Fort McHenry, Md.; C. Fort Johnston, R. C.; E. F. G. San Antonio, Tex.; E. F. Monroe, Va.; B. E. Washington, D. C.; I. Ft Ontario, N. Y.; L. F. Clark, Tex.
 On detached service in District of the Neuces.

Detached Service.—Capt. J. I. Rodgers, 1st Lieut. J. H. Gifford, members, G. C.-M. Fort Clark, Tex., March 3 (S. O. 39, Feb. 25, D. T.)

SRD ARTILLERY, Col. George W. Getty.—Headquar-ters and C. D. L. M. Fort Hamilton, N. Y. H.; A. Fi Monroe, Va.; E. I. Fort Wadsworth, N. Y. H.; B. Fort Niagars, N. Y.: H. Madison Bks, N. Y.; K. Platisburg Bks, N. Y.; F, G. Fort Schuyler, N. Y.

Leave Extended.—Capt. George F. Barstow, Fort Schuyler, N. Y. H., two days (S. O. 31, Feb. 26, D. E.)

H. A. A. A. R. French.—Headquarters, H. R. Angel Island, Cal.; C. L. Alcatras Island, Cal.; M. Fort Stevans, Or.; G. Fort Canby, Wash. T.; I. Fort Monros. Va.; A. K. Fort Point, Cal.; F. Point San Jose, Cal.; B. D. Fre-sidlo Cal.

COLONEL MILLER'S TEAM.	
Brevet Col. Marcus P. Miller 3 2 4 3 2 4 4 4	5 4-85
Lieut. H. R. Anderson 2 5 5 4 3 4 3 4	
Major J. W. Roder 8 4 8 4 5 4 4 8	5 2-37
A. Berry	5 4-40
Major D. W. Laird	4 4-85
Major Frank G. Smith 4 3 8 2 4 4 8 5	8 4-35
Motel	900

TABLE SOLO SALES										
Gen. McComb	.4	4	3	4	4	4	4	5	4	4-40
Major S. W. Backus	3	4	4	4	3	8	4	8	4	4-36
Coi. C. Mason Kinne	.4	8	4	4	4	4	3	4	8	5-38
Major John Mason	4	8	4	4	3	4	4	4	4	337
Capt. H. J. Burns	.4	4	8	õ	3	4	8	4	8	4-37
Major J. M. Litchfield	.8	4	4	2	3	2	8	0	8	2-26
(Fota)										094

H ARTILLERY, Col. Henry J. Hunt.—Headquarters and S. F. I. Charleston, S. C.; A. E., St. Augustine, Fla.; B. L. M. Fort Barrancas, Fla.; G. H. Key West, Fla.; C. Fort Monroe, Va.; D. Savannah, Ga.

18T INFANTRY, Lieut.-Col. Pinkney Lugenbeel.—Head-quarters and A. C. I. Fort Randall, D. T.; B. G. Fort Hale, D. T.; D. H. Fort Sully, D. T.; F. K. Fort Mcade, D. T.; E. Red Cloud Agency, D. T.

Leave Extended.—2d Lieut. Marion P. Maus, further tended one month (S. O., Feb. 27, W. D.)

extended one month (S. O., Feb. 27, W. D.)

28D INFANTRY, Colonel Frank Wheaton.—Headquarters and D. Fort Lapwai, idaho T.; C. R., Camp Howard, idaho T.; B. R., Epri Colville, Wash. T.; A. G. H., Coeur d'Alone Lake, Idaho T.; F. Camp Harney, Ore.

Detached Service.—2d Lieut. Charles W. Rowell is detailed as Judge Advocate, and 2d Lieut. E. K. Webster, member, G. C.-M. instituted per par. 3, S. O. 9, from these Hidges (S. O. 16, Feb. 10, D. C.)

The C. O. of the Presidio of San Francisco, Cal., will send all the enlisted n.en at his post for companies stationed at Forts Canby, Colville, Lapwai, Stevens, Townsend, Vancouver, Walla Walia, and Camps Howard and Coeur d'Alene Lake, to Fort Vancouver,

W. T., in charge of Major David P. Hancock (S. O. 19, Feb. 21, M. D. P.)

Reliceed,—2d Lieut. B. F. Hancock, relieved as J.-A. of G. C.-M. instituted per par. 3, S. O. 9, from these Hdqrs (S. O. 16, Feb. 10, D. C.)

RD INPANTRY, Colonel De L. Floyd-Jones.—Head-quarters and C. E. F. G. Fort Shaw, M. T.; A. Fort Benton, M. T.; K, Fort Logan, M. T.; B, D, H, I, Missoula City, M. T.

TH INFANTRY, Colonel Franklin F. Flint.—Head-quarters and B. C. F. G. Fort Sanders, Wy. T.; E. H. Fort Fred. Steele, Wy. T.; A. Ft. Fetterman, Wy. T.; D. K. Fort Laramle, Wy. T.; I. Fort D. A. Russell, Wy. T.

5TH INPANTRY, Colonel Nelson A. Miles.-quarters and A. B. C. D. E. F. G. H. I. K. Ft. Kee TH INFANTRY, Colonel William B. Hazen.—Head-quarters and C. D. E. F. G. I. Fort Baford, D. T.; A. B. Fort Abraham Lincoln, D. T.; H. K. Fort Stevenson, D. T.

Detached Service.—2d Lieut. Bernard A. Byrne will seport to the Supt. Mounted Recruiting Service to conduct recruits to the Dept. of Dakota (S. O., March , W. D.)

7TH INFANTRY, Col. John Gibbon.—Headquarters, and B, C, R, F, H, K, Fort Snelling, Minn.; A, I, Fort Shaw, M. T.; G, Fort Ellia, M. T.; D, Fort Logan, M. T.

TH INFANTRY, Col. August V. Kautz.—Headquar-ters and A. H. K. Benicia Bks, Cal.; C. Camp McDermit, Nev; D. Camp Bidwell, Cal.; E. Camp Gaston, Cal.; F. Camp Mojave, A. T.; G. Camp Halleck, Nev.; I. San Diego, Cal.; E, Fort Yuma, Cal.

TH INPANTRY, Col. John H. King.—Headquarters and G. H. Fort Omaha, Neb.; A. D. F. K. Fort McKinney, Wy. T.; I. Fort McPherson, Neb.; E. Camp at Cheyenne De-pot, Wy. T.; B, Fort Sidney, Neb.; C, Fort Hartsuff, Neb.

Leave of Absence.—Twenty days, to take effect when his services can be spared by his Post Commander, 2d Lieut. Elijah H. Merrill, Camp at Cheyenne Depot (S. O. 18, Feb. 20, D. P.)

10TH INPANTRY, Colonel Henry B. Clitz.—Head-quarters and A, B, C, F, I, Fort McKavett, Texas; D, Fort McIntosh, Tex.; E, Fort Grillin, Tex.; G, H, K, Fort Clark, Tex.

Detached Service.—1st Lieut. D. F. Stiles, member, G. C.-M. Fort Clark, Tex., March 3 (S. O. 39, Feb. 25, D. T.)

11TH INPANTRY, Colonel William H. Wood.—Head-quarters and D. R. G. I. K. Fort Bennett, D. T.; B. C. F. H. For Custer, M. T.; A. Fort Sully, D. T.

Leave of Absence.—One month, to apply for extension of five months, Licut.-Col. George P. Buell, Fort Custer, M. T. (8. O. 21, Feb. 24, D. D.)

12TH INFANTRY, Colonel Orlando B. Willcox.—Head-quarters and A. F. Fort Whipple, A. T.; B. K. Camp Verde, A. T.; C. D. Camp Apache, A. T.; E. Fort Supply, A. T.; G. Camp McDowell, A. T.; H. Camp Thomas, A. T.; I, Camp Grant, A. T.

Grant, A. T.

Change of Station.—1st Lieut. David J. Craigie will assume command of Co. A, 12th Inf., and is assigned to the command of the post of Fort Whipple, A. T., relieving Capt. T. Byrne, who will await further orders from Hdqrs Dept. of Arızona (S. O. 18, Feb. 13, D. A.)

Detached Service.—1st Lieut. James Halloran will turn over the command of his company to the officer next in rank to himself and proceed to Camp Grant, A. T., and report to the C. O. for duty with Co. I (S. O. 17, Feb. 12, D. A.)

18TH INFANTRY, Colonel P. R. de Trobriand.—Head-quarters and A. D. H. I. Jackson Bks, La.; B, F, K, Bator. Rouge Bks, La.; G, Mount Vernon, Ais.; C, E, Little Rock Bks, Ark.

Bus, Ark.

14TH INFANTRY, Col. John E. Smith.—Headquarters and D. R. F. H. I. K. Fort Douglas, Utah; A. Fort Hall, Idaho; B. C. G. Fort Cameron, U. T.

Change of Station.—2d Lieut. William A. Kimball, with detachment, is relieved from duty at Fort Hall Agency, and will report, with his detachment, to the C. O. Fort Hall for duty (S. O. 18, Feb. 20, D. P.).

Relieved.—1st Lieut. Charles A. Johnson is relieved from duty at Fort Robinson, Neb., and will join his proper station, on completion of the Indian duties upon which he has been engaged (S. O. 18, Feb. 20, D. P.).

15TH INFANTRY. Col. Geo. A. Woodward.—Head

15TH INFANTET, Col. Geo. A. Woodward.—Head-quarters and D. K. Ft Wingate, N. M.; B. Ft Garland, C. T.; F. Ft Union, N. M.; E. Fort Sayard, N. M.; C. Fort Stanton, N. M.; I. Fort Lewis, Colo.; A. G. Fort Bliss, Tex.; H. Fort Marcy, N. M.

Detached Service.—Capt. H. R. Brinkerhoft, 1st Lieut. W. O. Cory and 2d Lieut. T. F. Davis are detailed members G. C.-M. convened at Fort Bliss, Tex., by par. 2, S. O. 29, from these Hdqrs (S. O. 39, Feb. 25, D. M.)

D. M.)

2d Lieut. George F. Cooke will report to the Supt.
Gen. Recruiting Service to accompany a detachment
of recruits to his regiment (S. O., Feb. 28, W. D.)

1st Lieut. George K. McGunnegle will report to the
Supt. Gen. Recruiting Service to conduct a detachment
of recruits to his regiment (S. O., Feb. 28, W. D.)

16TH INFANTRY, Colonel G. Pennypacker.—Headqri A. C. H. Fort Riley, Kas.; B. I. Fort Reno, Ind. T.; B. D. For Sill, Ind. T.; K. Fort Gibson, Ind. T.; F, G. Ft Wallace, Kas

17sa Infantry, Colonel Thomas L. Crittenden.— Hondquarters and C. Fort Totten, D. T.; B, D. H, I, Fort Yates, D. T.; G, Fort A. Lincoin, D. T.; A, F, Fort Sisseton, D. T.; E, K, Fort Fembius, D. T.

Nates, D. T.; G, Fort A. Lincolb, D. T.; A, F, Fort Sisseton, D. T.; Royfer of Commissioned Oppicers 17th Infantary, February 1879.—Headquarters, Fort Totlen, D. T.; Major R. E. A. Crofton; Adjt. W. P. Rogers; Capt. M. McArthur, C; 1st Lieut. F. D. Garretty, C; 3d Lieut. J. D. Nickerson, C, Act. Sig. Officer. Fort Yates, D. T.; Capt. E. P. Pearson, B; Capt. H. S. Howe, H; 1st Lieut. A. M. O'Brien, B; 1st Lieut. T. Sarap, D; 1st Lieut. A. Ogle, H, Post Adjt.; 2d Lieut. J. Brennau, D; 2d Lieut. C. St. J. Chubb, H; 2d Lieut. W. A. Mann, B. A. A. Q. M. and A. C. S.; 2d Lieut. E. Chynoweth, I. Fort Sisseton, D. T.; Capt. C. E. Bennett, F; Capt. W. A. Van Horne, A; Lieut. J. M. Butnus, A; Post Adjt., A. A. Q. M. and A. C. S.; 1st Lieut. D. H. Brush, F; 2d Lieut. E. K. Kipatrick, F; 2d Lieut. E. Whowe, A. Fort Personing, D. T.; Capt. E. Collins, E; Capt. T. G. Troxel, K; 1st Lieut. H. P. Walker, E; 2d Lieut. C. U. Hock, K. Fort Lieuton, D. T.; Capt. L. H. Sanger, G; 1st Lieut. J. Chance, G. On Detached Service; Col. T. L. Crittenden, Supt. Gen. Rec. Ser., N. Y.; Q. M., G. Kuhlen, at Fort Meade, D. T., A. A. Q. M.; 1st Lieut. C. H. Greene, K. on Rec. Ser., Collins, Sc. Capt. C. B. Boberts, L. Scole, C. B. Boberts, L. Capt. C. B. Boberts, L. Capt. C. B. Boberts, L. Capt. C. B. Boberts, L.

19TH INPANTRY, Colonel Thomas H. Ruger.—Hea quarters and B. C. D. E. F. G. H. I. E. McPherson Ma Atlanta. Ga.; A. Chattanooga, Tenn.

Atlanta, Ga.; A. Chattanooga, Tenn.

Detached Service.—Capt. Birney B. Keeler, A. D. C., is appointed Recorder for the Retiring Board instituted by par. 5, S. O. 23, from the A. G. O. (S. O. 18, Feb. 17, M. D. P.)

Leave of Absence.—One month, to apply for extension of one month, 2d Lieut. John H. Todd, McPherson Bks, Atlanta, Ga. (S. O. 37, March 1, D. S.)

19TH INFANTRY, Colonel Char'es H. Smith.—Head-quarters and B, H. Fort Leavenworth, Kss.; E, K. Fort Lyon, C. T.; D, F, G, Fort Dodge, Kas.; A, C, I, Fort Elliott, Tex.

C.T.; D, F. G, Fort Dodge, Kas.: A, C. I, Fort Elliott, Tex. Change of Station.—Major H. A. Hambright is relieved from further duty at Fort Dodge, Kas., and will proceed to Fort Lyon, Colo., and take post (S. O. 39, Feb. 25, D. M.)

Detached Service.—Capts. W. J. Lyster, Luke O'Reilly, 1st Lieut. J. A. Payne, 2d Lieuts. A. H. M. Taylor, E. B. Ives, members, and 1st Lieut. G. H. Cook, Regtl. Adjt., J.-A. of G. C.-M. Fort Leavenworth, Kas., Feb. 26 (S. O. 38, Feb. 24, D. M.)

20TH INFANTRY, Colonel Geo. Sykes.—Headquarters and B. D. G. I. K. Fort Brown, Tex.; A. San Antonio, Tex.; C. E. F. H. Fort Clark, Tex.

C. E. F. H. Fort Clark, Tex.

Detached Service.—Capt. J. C. Bates, 1st Lieuts. J.

A. Manley, W. H. Low, Jr., 2d Lieuts. J. G. Gates,
J. C. Dent, members, and 1st Lieut J. F. Huston,
J.-A. of G. C.-M. Fort Brown, Tex, March 3 (S. O.

37, Feb. 21, D. T.)

Capt. J. N. Coe, 1st Lieut. John Bannister, 2d Lieut.

H. F. Kendall, members, G. C.-M. Fort Clark, Tex.,

March 3 (S. O. 39, Feb. 25, D. T.)

2d Lieut. George L. Rousseau will report to the

Supt. Mounted Recruiting Service to accompany a

detachment of recruits to the 8th Cav. (S. O., Feb. 26,

W. D.)

21st Infantry, Colonel Alfred Sully.—Headquarters and D. G. K. Fort Vancouver, Wash. T.; A. Fort Boise, Ind. T.; H. Camp Harney, Or.; F. Fort Klamath. Or.; C. Fort Lapwal, Idaho T.; B. E. Fort Townsend, Wash. T.; I. Fort Canby, Wash. T.; I.

Canby, Wash. T.

Detached Service.—Capt. Stephen P. Jocelyn, member, G. C.-M. instituted by par. 3, S. O. 13, from these Hdqrs (S. O. 15, Feb. 8, D. C.)

Reliced.—Capt. W. F. Spurgin, relieved as member G. C.-M. instituted by par. 3, S. O. 13, from these Hdqrs (S. O. 15, Feb. 8, D. C.)

22ND INFANTRY, Colonel David S. Stanley.—Head-quarters and B, G, Fort Porter, N. Y.; A, C, H, Fort Wayne, Mich.; F, K, Fort Brady, Mich.; D, E, Fort Mackinac, Mich.; I, Fort Gratiot, Mich.

8RD INFANTRY, Colonel Jeff. C. Davis.—Headquarters and B, E, F, H, Fort Supply, Ind. T.; I. Fort Leavenworth, Kas.; A, C, D, G, K, North Fork of the Canadian.

Detached Service.—2d Lieut. C. H. Heyl will report to the C. O. of Fort Leavenworth, Kas., for temporary duty with Co. I, and accompany it to its new station (S. O. 38, Feb. 24, D. M.)

(S. O. 38, Feb. 24, D. M.)

24TH INFANTRY, Colonel Joseph H. Potter.—Headguarters and A. B. F. Fort Duncan. Tex.; D. E. H. Fort McIntoch, Tex.; C., G. I. E. Fort Ringgold. Tex.

Detached Service.—Lieut.—Col. W. R. Shafter will
proceed to San Antonio, as witness for the defence in
the case of 1st Lieut. W. H. Beck, 10th Cav. (S. O. 37,
Feb. 21, D. T.)

1st Lieut. John L. Clem is detailed a member of the
Board of Officers convened in Washington, D. C., by
S. O. 221, Oct. 14, 1878, from A.G. office, for the examination of candidates for appointment as Superintendents of National Cemeteries (S. O., March 1, W. D.)

25TH INFANTRY, Colonel George L. Andrews.—Head-quarters and E. H. I. Fort Davis, Tex.; C, D, F, Fort Stockton, Tex.; B, San Felipe, Tex.; A, G, K, Ft Concho, Tex.

(Correspondence of the Army and Navy Journal.) AFFAIRS AT WASHINGTON

WASHINGTON, March 4, 1879.

Washington, March 4, 1879.

For more than a week past it has been predicted that the Army Appropriation bill would fail to pass at this session of Congress. No agreement could be arrived at as long as the political clause concerning the use of troops at the polls was made a part of the bill. At the extra session, which has been called at such an early day, March 18, the two Houses of Congress will be still more strongly Democratic, and in view of this fact it is matter of surprise to some that the Republicans did not give way and consent to a bill which was more liberal than they can expect to have passed at the extra session. As far as the reorganization portion of the bill is concerned, but few see anything to complain of in the failure of the bill. Nearly all of the Army officers will agree that the Senate acted wisely in refusing to go into the matter of the reorganization when there was such a very short time to consider the matter. It is true that the joint commission had devoted a long time and given careful attention to the subject; but a great amount of evidence was brought to show that there were features in the bill so objectionable that it was better to put the matter of until such time as the Senators could give their undivided attention to it.

The Democrats have been determined from the first attention to it.

The Democrats have been determined from the first

The Democrats have been determined from the first to agree to no bill which would appropriate money for the Army, which did not contain a clause forbidding the use of troops at the elections, and there is no good reason to believe that any change in their sentiments will take place at the extra session.

At the closing hours of this session the bill, which had already passed the House, restoring Major Granville O. Haller, formerly of the 4th Infantry, to his position in the Army, passed the Senate, and we presume it has been signed by the President. This was an act of justice long delayed. The summary dismissal of Major Haller by Mr. Stanton in 1862 was one of those pieces of cruelty for which the late and "great War Secretary" was noted. Stanton was informed by

some over anxious patriot that Haller had expressed a friendship for McClellan. "Off with his head!" said the Secretary, and without any shadow of law, or even the consent of President Lincoln, the order was issued, and a faithful officer, while serving with his regiment in the field, was told that he was no longer an officer of the Army. Another bill passed at the very last hour of the session was one relieving D. M. Frost, of Missouri, formerly an officer of the 3d Cavalry, and Missouri, formerly an officer of the 3d Cavairy, and well known to the older officers of the Army, from responsibility as bondsman for the late Major Gaines, Paymaster U. S. Army. It will be some days before any enumeration of the bills which have passed and which affect the officers of the different branches of the service can be made. the service can be made.

the service can be made.

It is possible that after a good rest of two weeks the members may return to the extra session with a disposition to do the fair thing by the Army bill. It is certain that the strain upon the members of both Houses has been immense for the last ten days. ing that time no member who has taken an interest in

ing that time no member who has taken an interest in the proceedings of Congress has had a chance to get a good night's rest, and they are all completely used up. At the fall of the Speaker's gavel to-day the crowds at the Capitol dispersed in the most quiet and orderly manner, and the scenes which it is said have occurred on former occasions at the closing hours of the seeswere nowhere visible

ion were nowhere visible.

For a few more weeks the Army officers must possess their souls with patience, and it is idle to speculate upon what will happen until our wise legislators return to their labors after the wholesome discipline which it is well known that Congressmen always impose upon

themselves during the solemn season of Lent.
There is no prospect of the publishing of the Army
Register for 1879 for some months.

ARMY MUTUAL AID ASSOCIATION.

ARMY MUTUAL AID ASSOCIATION.

To the Editor of the Army and Navy Journal:

Sir: In connection with your notice of the "Army Mutual Aid Association," would it not be in order to explain more fully the probable future workings of the same? That such an association will be of very great benefit to its members, if properly organized and conducted, few will or can doubt; but as this particular one is constituted, I for one am rather sceptical as to the mutual workings of the same.

one is constituted, I for one am rather sceptical as to the mutual workings of the same.

Members are divided into two classes. Of course we know that the life of any single member is very uncertain, but also that the average of the many—of the classes—will be fixed. In the first class we shall name Col. A., sged fifty years, expectation of life some twenty years. In the second class, Lieut. B., aged twenty-five years, expectation of life some thirty-seven years. The first pays in four, and the second, three dollars (and any necessary sum for running expenses).

In due time Col. A. dies, and his heirs receive the seven dollars. Expenses nothing save those just mentioned, and the loss of interess on the four dollars (which, by the way, might have been made to cover expenses). Gain, three dollars clear.

Now, when Lieut. B. dies, where is the benefit for his heirs to come from? Possibly from Lieut. C., who has in due time come into the second class. But suppose that at some future time the coming lieutenant does not come in, where is the benefit for the lieutenant already in to come from?

does not come in, where is the benefit for the lieutenant already in to come from?

As at present organized, the members of the first class of this association are sure, in the natural course of events, to receive benefits for which they will never have paid full value, and necessarily at the expense of the ond class.

the second class.

The members are not properly classified, and the assessments not duly apportioned. Take, for instance, two members, one at the age of fifty, and the other at twenty-five, the first is assessed only 33 per cent. more than the other, whereas he should pay some 233 per cent. more than the latter.

Any one who will look at a table of annual pre-

Any one who will look at a table of annual premiums for life assurance, can not but be struck by the manifest injustice of such assessments as are proposed. To secure \$1,000 of life assurance, the lieutenant at twenty-five years of age would have to pay only about \$20, while the colone at fifty years would have to pay some \$47; and in both cases they will have to fully pay for value expected to be received (including all necessary running expenses), and both will receive the full amount contracted for, whether others join the classes or not. es or not.

FORT JOHNSTON, N. C., Feb. 28, 1879.

Order Notes, No. 93—Is a memoranda of trajectories of Springfield and Peabody-Martini rifles, as obtained from comparisons instituted by Captain J. E. Greer, Ordnance Dept., under the direction of the commandant Springfield Armory. 'These results showed superior accuracy on the part of the Springfield, accompanied with more power than is required to disable a man at ranges at which it is practically impossible for a marksman to hit so small an object. At ranges of 1,000 yards and upward the trajectory of the Peabody was found to be slightly flatter than the Springfield, but at shorter ranges—those at which a rifle will ordinarily be fired in service—the trajectory Peanody was found to be signify natter than the Springfield, but at shorter ranges—those at which a rifie will ordinarily be fired in service—the trajectory of the Springfield was the flatter owing to its higher velocity." No. 92—Is a memoranda of trajectories of Army revolvers—Colt's and Smith and Wesson's—by Capt. J. E. Greer, Ordnance Dept., Springfield Armory, from experiments recently conducted by him.

PATENTS FOR MILITARY INVENTIONS.-The follow-

PATENTS FOR MILITARY INVENTIONS.—The following patents have recently been granted:

To H H. Barnard, of Rochester, N. Y., for a shot cartridge, To Silas Crispin, New York, for gas checks for breech IJading ordnance. The gas-ring extends into the breech of the gun, and is expanded by the explosion of the charge. A gas check or ring having a ip composed of a soft and extensible material united to a base composed of a hard and elastic material. To, S. C. Lyford, Washington, D. C., for an intrenching knife bayonet. The knife is swivelled so as to turn freely upon the gun barrel.

SOME PERSONAL ITEMS.

WADE HAMPTON, Jr., son of Senator-elect Hampton, was a floor anager at the recent ball given in honor of General Sherman at Jacksonville, Fla.

THE Ameer of Afghanistan is dead. His successor is his third

Two survivors of the battle of New Orleans met in that city on Washington's birthday, Joseph St. Cyr and Chas. Raymond, one eighty-two and the other eighty-five years old. They belonged to the rifle company of the Battalion d' Orleans, commanded by Major Planche, of which there are four other survivors, S. St. Cyr, Jean Gervais, Jean Larmotte, and P. M. Laprie.

"THE chief accusation recently urged against Gen. Montaudor one of the generals removed from the command of his army corps, says the Paris correspondent of the Pall Mall Gazette, "was the he had refused to allow a military band to perform the 'Marsell' laise;' the new War Minister has now declared that the law of Messidor, Year III., has never been repealed, which is equivalent to saying that the 'Marseillaise' is the national song of France." al song of France."

A LETTER from Bismarck, Dakota, to the Chicago Tribune, says:

"Col. Benteen, of the 7th Cavairy, left the impression in his testimony in the Reno inquiry that Dr. Lord and Lieut. Sturgis, who were with Custer, and whose bodies were not found, might be still alive and with the Indians. Away down in Maine this ray of hope fell upon the heart of a young lady who is in reality, but not in name, one of the widows of that fatal dash for vindication. There was more in the Colonel's words to her than he intended. For the fifteenth time she wrote to Bismarck pitifully inquiring if there was any possible hope that Benteen's intimation was founded upon fact. Her friend here answered 'No.' If fDr. Lord was alive and in Sitting Bull's camp the Canadian mounted Police would have found it out long before this. Major Welsh, who is on the best of terms with the hostiles, and is with them a great deal, has made every effort to discover a survivor. He is a great admirer of the dead Custer, and his personal feelings have been heartily enlisted in the vain search. All that he has found has been one of the horses of the white horse company. Dr. Lord may be alive, but it is as improbable as Jules Verne's 80-day trip around the world. The lady in Maine, however, has an intuitive belief that he is still alive and she will yet see him. She reproaches herself for some little thing she did, thinking it sent him off with Custer, and that he was indifferent as to the consequences.

A WRITER in the Boston Advertiser says: A recent run to Wash-ington gave me a short interview with that old naval paladin Vice-Admiral Rowan, about whom as plain Captain Rowan I have just heard a story well worth repeating. It is remarkable that the prayer for the President of the United States was read without prayer for the President of the United States was read without interruption during the whole of the war in the little Episcopal Church at Key West. In 1861, things were squally there, and the chaplain's position was anything but a bed of roses. When he came to the prayer, up came the bowed heads, and amens were not. Finally he was told that he would be dragged by his vestry and congregation from the chancel on the following Sunday if he persisted in reading the prayer. Replying that he should certainly do so, he awaited the next Sunday without pleasurable feelings.

On Saturday came the Payanes to another in the harbor, and the On Saturday came the Pawnee to anchor in the harbor, and th on saturday came the Pasanes to anchor in the introor, and the captain to call on the chaplain. "Well, parson, how are you," was the cheery greeting. "I am not well, Captain Rowan," was the reply. "I am to be dragged from the church to morrow for persisting in reading the prayer for the President." Captain Rowan asked a few questions, and then remarked, with the deliberate manner which his friends knew so well: "Parson I have on my ship a set of pious marines as you ever saw.

poor fellows have been longing for a chance to go to church poor lettows are been longing to a chanter by go to chinter, at they shall have it to-morrow. Parson, have you any vacant front pews?" The next day, just as the belligerent congregation with purpose in every look had taken their seats, in marched the en-tire marine guard of the Paunee, stacked arms in front of the chan-cel, and took their seats. To the prayer for the President succeeded an "Amen" from twenty or thirty stalwart throats which shook the most and that was the last time that the rector had any trouble the roof, and that was the last time that the rector had any trouble

COUNT MOLTKE, we learn from the Berlin correspondent of the Pall Mall Gazetts, has directed the General Staff to make the Afghan war a subject of special study, and a particular department has been instituted to take notice of what is going on and to report regularly to Count Moltke upon the progress of the campaign. Sev-eral German officers at the beginning of the war solicited leave from the British government to accompany the invading for der the circumstances pe

CAPT. JAS. N. WHEELAN, 2d Cavalry, has returned to New York He is to be found at the Army and Navy Club.

MISS CELIA MOULTON, niece of Gen. Sherman, is paying a visit to her friend Mrs. Alexander at West Point.

CAPT. J. S. PAYNE, 5th Cavalry, with family, is spending his eave of absence in Washington.

Awong the gentlemen present at the monthly recention of the Among the gentlemen present at the monthly reception of the Century Club, in 15th street, New York, Saturday evening, March 1st, were Col. P. S. Michie, West Point, Col. Engene B. Beanmont, 4th Cavalry; also Major Samuel S. Sumner and Capt. Albert E. Woodson, 5th Cavalry, and Lieut. T. B. M. Mason, U. S. Navy.

Col. Charles Lee Jones, of Washington, a connection of the ces of Virginia, and an authority on "the code," is writing a book

WM. M. CONSTABLE, late Co. H, 1st U. S. Cavalry, in a lette to the Washington National Republican, says: "My estimate of Reno and Custer is this: The former was brave but not rash, and Custer was both, Through rashness Custer and the '3d Cavalry Division' got surrounded at Trevillian Station in 1864, and it was Division' got surrounded at Trevillian Station in 1864, and it was a brave but not a rash man who cut him out. I mean Wesley Merritt, who commanded the 1st Cavalry Division, of which Marcus Reno's regiment—the 1st Cavalry—formed a part. It was Custer's rashness that got him into the scrape at the Little Big Horn in 1876, and it would require a larger force than Reno had at his command to cut him out. Reno did not desert Custer, but Custer deserted Reno. If Custer had weight for the inventions at his command to cut him out. Reno did not desert Custer, but Custer deserted Reno. If Custer had waited for the junction of the three columns under Generals Crook, Terry, and Gibbon the massacre would never have taken place; but his rashness, and his ambition to whip 15,000 Indians with 300 men frustrated the plans of the generals in command, allowed the Indians to escape, and lost to the Government the services of 300 brave men. ters are not brave, generally speaking; but I beg to be ex-

from the charge of egotism when I say that I was in eightereal engagements, forty or fifty skirmishes, and two raids, a log at last. I speak for the honor of my regiment."

THE San Antonio Daily Express announces the death of "Gen ral" Austin Thornton, a somewhat noted colored man who has The San Antonio Daily Express announces the death of "General" Austin Thornton, a somewhat noted colored man who has, for a time, been employed as a measurage at Hdqrs Dept. of Texas. He was formerly a slave, and from early associations acquired a courteous and polite manner which gained him the esteem of bis employers. His title of "General" was bestowed upon him for his military carriage. The Express says: "Probably no colored man ever before departed this life in Texas, leaving so many to regret his death."

At the Oak Grove Theatre, Fort Vancouver, W. T., Friday evening, Feb. 7, 1879, the "Saily Amateurs" performed "Two Can Play at That Game," Major Nickerson personating Howard Leelle (intimate friend of Charles); Lieutenant Wood, Charles Arundie (recently married): Mrs. Wood, Lucy Arundie (wife of Charles). The performance concluded with the farce "Trying It On," Lieutenant Ebstein appearing as Mr. Walsingham Potts; Captain Slacen as Mr. Jobstock; Lieutenant Boresteel as Mr. Tittlebat; Mrs. Ebstein as Mrs. Jobstock; Miss Hovard as Fanny, (her niece); and Miss Boyle as Lucy (her maid). Leader of orchestra, Frederick B. Hubner.

EDWARD PAYSON WESTON, the pedestrian, who has been under, taking, for a bet of \$500 against Sir John Astley's \$2,500, to walk 2,000 miles in 1,000 hours over English country roads, delivering fity lectures meanwhile, has found that his hours ran out sooner than his miles. His 1,000 hours left him at 1,077% miles, in a village called—it is his own fault in selecting a stop

MAJOR J. P. SANGER, 1st Artillery, has completed his report upon the artillery of the old world and submitted it to the War Department. It is of about the same length as Gen. Upton's report upon the armies of Europe and Asia. The report will, we hope, soon be printed, as it is, so far as we know, the only work of its kind, covering as it does, in one view, the modern artillery establishments of all the great powers. The completion of this report has been somewhat delayed by the fact that Major Sanger has been obliged to represent the while giving constant attention to other. been obliged to prepare it while giving constant attention to other duties. Numerous illustrations accompany the manuscript.

GEN. GROTENGELM, the Russian commandant of Fort Petro-Alexandrovsk, near Khiva, has received instructions to institute a census of the Khanate, with a view to the introduction of com-pulsory military service, based upon the Russian model, into the Khan of Khiva's dominions.

mer of 1838, says the Chattanooga (Tenn.) Con Artillery, commanded by Colonel Gates, was e the 3d U. S. Artillery, commanded by Colonel Gates, was encamped at the foot of the Missionary Ridge, engaged in the removal of the Cherokee Indians. One day the Colonel ordered out a fatigue party to clean out the spring, a beautiful fountain bubbling up at Cherokee Indians. One day the Colonel ordered out a fatigue party to clean out the spring, a beautiful fountain bubbling up at the foot of the ridge. Shortly after, the sergeant reported to headquarters that his men were all drunk. Says the Colonel, "You should not have let the men drink whiskey." "I did not," replied the sergeant, "they drank nothing but water from the spring." The sergeant and men were ordered into the gnard house and a new detail ordered and a lieutenant placed in command with orders to not let the men have access to any spirits. Not long after the lieutenant reported the men all drunk. The men were ordered to the gnard house and the lieutenant under arrest. Another party was ordered out, of which Colonel Gates took the command. He took a seat on a stump so he could overlook the whole ground, determined there should be no getting drunk this time. But behold i in a short time his men were all drunk. He was certain they had drank nothing but water, which they frequently did, getting down on their knees and drinking from the branch just below the spring. The Colonel was at his wits' end. The men were ordered to the guard house, and he repaired to his tent to think. After weighing the matter pro and con he had to give it up and, repairing to the guard house, he told the men that if they would show him how it was done he would release them; otherwise he would punish them severely. To this they agreed, and took him to the spring; just below the spring in the branch they uncarthed a five-gallon jug filled with whiskey, the mouth of which was stopped with a cork, in which was inserted a quill that reached to the bottom. When buried in the annd the upper end of the quill was just above the surface of the water, and when they wanted to drink they stooped down, inserted the quill in their mouth, and while apparently drinking pure water were drinking pure whistey, and the Colonel, sitting on the stump in plain view, was none the wiser for it.

SURGEON GEO. F. WINSLOW, U. S. N., some time since presented to Congress a claim under the act of March 2, 1867, section 3, that having been transferred from the volunteer to the Regular Navy, he should be credited with the service performed by him as a volunteer officer; that he should take rank and position among the medical officers who entered the Regular Navy in 1862; that he should be advanced on the list of surgeons to take rank next after Surgeon Geo. H. Cooke, and that his commission as surgeon should be antedated to the 27th of May, 1871. This claim having been referred to the Secretary of the Navy he reported adversely upon it, quoting the opinion of the Attorney-General to sustain his own view of the law. The Senate Committee on Naval Affairs concurred in the Secretary's opinion and asked to be discharged from further consideration of the subject. The law in question does not, it is held, confer upon the officers referred to in it, the right to have their commissions or their rank antedated. uld be credited with the service performed by

Mr. STANLEY has, it is reported, been selected as chief of the lelgian exploring expedition to Africa.

THE criticism passed on America by a French traveller as a land of many religions and only one gravy, is familiar; the recent elevation by France of her own Grevy to the highest place in her social system has excited British punsters to abnormal activity. There was just one curious conjunction which made excussable this form of British comment, namely, the early congratulatory visit paid by M. Girot, the police prefect, to M. Grevy. Gigot is leg form of British comments, namely, the early congrammator paid by M. Gigot, the police prefect, to M. Grevy. Gigot of mutton; the union of that with Grevy might have brought to the lips of Dr. Johnson himself.

Our recent notice of the Life of Commodore Tatinall omits say that Mr. John R. F. Tatinall, of Savannah, announces, orders sent to him will be met by the forwarding of copies of work, per express pre-paid by him, the price of the book to be lected on delivery⁴

UNDER the new French government, Gens. Montandon, Deligny, UNDER the new French government, Gens. Montaudon, Deligny, Bataille, Douay, Duc d'Aumale, Du Barail, Cambriels, and Bouroaki are relieved of their commands; and Gen. Lartigue, famous for the Labordere incident at Limoges, who has for some time been disabled by illness, is transferred, at his own request, to the general staff. Gen. Clinchant is transferred from Lille to Chalons, Gen. Wolff from Clermont, to Besancon, General Cambriels from Rennes to Clermont, while the other vacancies are filled up by Generals of Division Lefebyre, Carteret-Trecourt, Cornat, Doutre-lane, Gallifet, Osmont, Schmitz, and Farre. Gen. Carteret distinguished himself in Italy and Mexico; Gen. Gallifet commanded the Chasseurs d'Afrique at Sedan; Gen. Schmitz was the head of Gen. Montanban's staff in China and of Gen. Trochu's staff during the siege of Paris; and Gen. Farre was the head of Gen. Fail the siege of Paris; and Gen. Farre was the head of Gen. Faid-herbe's staff in the army of the north. The new men are taken equally from the infantry, cavalry, engineers, and general staff.

MR. EDWARD D. DENNIS died at his residence, No. 362 State street, Brooklyn, N. Y., February 18, of disease of the liver, in the forty-fourth year of his age. Mr. Dennis was born in the town of Wilson, Niagara County, N. Y. When about sixteen years of age he came to New York with the determination of going to sea. His friend, the late Dr. Isaacs, persuaded him not to do so, and he entered a wholosale drug house as a clerk. In 1853 he went to the Isthmus of Panama in the service of the Panama Railroad Company. He soon became the general freight and ticket agent of the road, a position he held for several years. The last year he was on the isthmus he was the agent for Wells, Fargo and Co.'s express. He left the isthmus in 1864 and was for a year or two in the office of Wells, Fargo and Co. in this city. About twelve years ago he became a member of the firm of Marcial and Co., commission merchants, now of No. 46 Broadway. For several years past, and at the time of his death, he was the head or senior member of the firm. He was gentle and unassuming in his manners and had the MR. EDWARD D. DENNIS died at his residence, No. 302 State farm. He was gentle and unassuming in his manners and had the faculty of making many friends, among whom he was known as a genial companion and a man of the strictest integrity. He leaves a wife and one son, the former, the only daughter of Commodore G. H. Cooper, U. S. N.

We learn from Washington that Capt. Thomas Blair, 15th Infan, try, has been dismissed the Service, and that orders have been issued for his release from custody by the military authorities of Governor's Island. Mrs. Granger's proceedings for a divorce are in progress before Judge Van Vorst, of the N. Y. Supreme Court, as referee. She is reported as stating that Blair represented not only that he was not married but that the woman who claims him as wife was dead.

THE following Army and Navy officers were reported in New York City during past week: General R. Ingalls, U. S. A., 5th Avenue Hotel; Capt. J. G. Walker, U. S. N., Windsor Hotel; Capt. T. A. Dodge, U. S. A., St. Nicholas; Gen. Q. A. Gillmore, U. S. A.,

THE New York Herald reports that "Col. Audenried, of Gen. Sherman's staff, is the great bean of Washington." The fact is not to be questioned, but the Herald is somewhat late with the dis-

An interesting paper on the subject of "Naval Affairs" was read by Lieut. Fred. Collins, U. S. N., before the Washington Branch of the U. S. Naval Institute on Thursday, Feb. 27. The meeting of the Institute was the largest tims far held The following were among the distinguished officers preseut: Rear-Admiral John Rodgers, president; Rear-Admiral Jenkins, vice-president; Rear-Admiral Selfridge, Rear-Admiral Boggs, Rear-Admiral Seott, Commodore Beaumont, Commodore Law, and ex-Chief Constructor Lenthell. Admiral Jenkins, in his remarks, said that it was the best paper on naval affairs to which he had had the pleasure of listening for many years. Several of the he had had the pleasure of listening for many years. Several of the a the presents of intening for many years. Several of the need participated in the discussion, expressing themselves complimentary terms, and approving the ideas expressed per, showing that the hope that "approximate unani-ading principles now existed in the Service" was well

THE remains of Lieut. Richard Breck, late of the United States
Navy, have arrived from China at San Francisco, en route to
Bridgewater, Mass., for burial. Lieut. Breck was a native of
Bridgewater, and a son of the late Samuel Breck, Esq., of that
town. Gen Samuel Breck of the War Department is of the same Gen. Samuel Breck of the War Department is of the samu Lieut, Breck came to his death in China from accidental

THE Speaker of the House of Representatives has appointed a Congressional visitors to the Military Academy, Mr. Blount, of orgis; Mr. Mills, of Texas, and Mr. Hale of Maine; to the Naval ademy, Mr. Durham, of Kentucky; Mr. Knapp, of [Ill., and Mr. man, of Penn.

An association has been formed at Detroit, Mich., to build onument to Gen. A. S. Williams, deceased.

monument to Gen. A. S. Williams, deceased.

The New York Commandery of the Military Order L. L. had a very interesting meeting at Delmonico's, with feasting, music, and short speeches, by Generals Slocum and Robinson, and Dr. P. D. Keyer of the Philadelphia Commandery, who was present with Gen. C. F. Ruff, Lieut.-Col. U. S. A., and Gen. Hector Tyndale, of that Commandery, and Capt. Mason, of the Boston Commandery. Admiral Trenchard, Capt. Braine, Commander Erben, and Pay In. spector Eldredge, of the Navy, were also present as well as other members of the order as follows: Generals Davies, McMahon Molineux, Carleton, Milhau, Sharpe, Ames, Jardine, Cochrane, Hall, Wainwright, Locke, McKibbin; Colonels Perry, U. S. A., Mott, Sawyer, Porter, Watts, Fernow, Church, Miln, Swift, Clay, Clarke; Majors Lockwood, Cabot, Tailof, Ulrich; Captains Wheelan, U. S. A., Cooley Leavitt, Ellis, Culver; Lieutenants Farragut, Raymond, Adams, Wise, and Hughes.

THE Senate confirmed, March 3, the nomination of Robert C. Walker, of Montana, as Paymaster, U. S. Army, with rank of

COL. THOMAS L. CASEY, Corps of Engineers, U. S. Army, and Professor John S. Billings, Surgeon, U. S. Army, have been apointed by a Resolution of the House of Representatives members f a commission to consider the heating, lighting and ventilation the house of the House

MR. GILBERT J. MARBURY, who departed this life on the 28th Agnuary, at Rio de Janeiro, was a son of Counsellor F. F. Marbury, of New York. Mr. Marbury began his naval career in 1865, as Captain's Clerk to Commander Henry Erben, then on duty in the South Atlantic. He subsequently served, in the Mediterranean, with Captain Temple; then with Captain Braine on the expedition in search of the Polar explorers. He was also with Captain Barrett in the West Indies and up the Mississippi'River, being attached to the Phymouth, the first war vessel which passed through Eads' Jetties. Mr. Marbury's last service was with Capt. Harmony. His knowledge of the regulations and customs of the Navy made him a valuable assistant. He was a courteous, affable, and considerate gentleman, who was much respected and liked by his shipmates.

THE friends of Captain Remey, U. S. N., are divided on the question as to what new title is to be given him in recognition of his acting appointment. Some insist upon calling him "Judge," and others are equally decided in favor of "General."

THE following officers have been ordered before the Army Retiring Board at New York, viz.: Captains Nathl. Prime, 10th Inf.; Jas. Stewart and Jos. K. Hyer, 18th Inf.; Jas. T. McGinniss, 13th Inf., and A. H. Goodloe, 22d Inf. The Board have forwarded to Washington their report upon the following officers: Col. Geo. A. Woodward, 15th Inf.; Majors Aifred E. Latimer, 4th Cav., and Robt. Nugent, 24th Inf.; Captains H. B. Bristol, 5th Inf.; Jas. S. Tomkins and Jacob Paulus, 25th Inf.; Geo. E. Ford, 3d Cav.; Herman Schreiner, 9th Cav.: J. B. Vande Wiele, 10th Cav.; Major Edwin D. Judd. P. D., and two other

THE Senate Committee on Naval Affairs secured the indefinite Rufus Tryon a medical inspector, and P. A. Surg. John W. Ross and Dr. Thos. Owens surgeons in the Navy. The Committee reported "that, while they believe in some of these cases there was considerable meritorious and perhaps self-sacrificing effort on the part of these persons, worthy of commendation, they do not think it is advisable, considering the interests of the public service and the harmony of the Medical Corps of the Navy, to recommend the passage of any of the measures just

END OF THE FORTY-FIFTH CONGRESS.

THE Forty-fifth Congress cessed to have a legal existence at noon on the 4th of March, but the doorkeeper of the House, by pushing back the hands of the legislative clock, secured for it a few moments more of questionable authority. It did not find time, to pass the usual appropriation bills, the were occupied in a dispute between the session were occupied in a dispute between the two political parties as to which was to be held responsible for this and for the extra session which is to follow the 18th of March

The following bills have received the President's signature and become laws: H. R. 6242, for the relief of soldiers and sailors becoming totally blind in the service of the country. Also acts for the relief of Catherine and Sophia Germain (H. R. 1679); 2d Catherine and Sophia Germain (H. R. 1679); 2d Lieut. Thos. T. Kuox, 1st Cavairy (H. R. 3558); Jenkins A. Fitzgerald, Asst. Surg. U. S. A. (H. R. 796); Alfred Muller, la'e Act. Asst. Surg. U. S. A. (H. R. 1162); Henry H. Meade, late P. M. U. S. Navy (H. R. 138); the widow of Jas. Totten, late Lieut. Col. and A. I. G. U. S. A. (H. R. 251); the widow of Gen. Chas. Thomas (H. R. 4687). It is impossible to give this week a full list of bills passed or to show the precise position in which others were possible to give this week a full list of offis passed or to show the precise position in which others were left. The number of bills introduced in the 45th Congress amounted in all to nearly 2,000 in the Senate and nearly 7,000 in the House. 10,167 petitions were received and referred, 376 of them to the Committee on Military Affairs and 79 to the Committee on Military Affairs and 79 to the Committee on Naval Affairs.

THE Marion, which arrived from the European THE Marion, which arrived from the European equadron about two months ago and has since been at the Brooklyn Navy-yard undergoing repairs, is again ready for ses, and has been detailed for a three years' cruise in the North Atlantic squadron. Her old crew has been discharged and paid off and a new crew enlisted for her. She has also an entirely new detail of officers. Commander, Francis M. Bunce, commanding. Executive Officer, Lieutenant George A. Converse. Navigator, Lieutenant W. I. Moore. Watch Officers. Lieutenants John P. Mer-George A. Converse. Navigator, Lieutenant W. I. Moore. Watch Officers, Lieutenants John P. Merrell, Edward A. Field, Herbert Winslow and C. W. Ruschenberger. Purser, Passed Assistant Paymaster Samuel R. Colhoun. Medical Officers: Surgeon II. Samuel R. Colhoun. Medical Officers: Surgeon II.
A. Beaumont; Passed Assistant Surgeon J. Hancock
Hall. Engineers: Chief, Louis J. Allen; Passed
Asst. Engineers J. G. Brosnahan, Francis M.
Ashton; Assistant Henry E. Baughman. Marine
Officer, 1st Lieut. George C. Reed. Captain's
Clerk, Ensign F. H. Taylor. Boatswain, Charles
E. Rich. Carpenter, Thomas P. Smith. Sailmaker,
Mr. Krause. Gunner, T. Bascom Watkins.

THE N. Y. Herald correspondent at Tashkend, Turkestan, Feb. 24, reports the Russian General Rasgnaff as saying of the Afghan war: "It will last a long while, unless the Afghans find a good general, which they may do. They have good soldiers but detestable commanders. They possess two hundred cannon, scattered over their territory, and numerous cavalry which is incomparable in quality, and could destroy the invaders if properly handled." In Grand Vizier of the Ameer, whom he also interviewed, is reported as saying: "All the advances made by the English up to the present time have been made possible only by as raying: "All the advances made by the English up to the present time have been made possible only by means of the bribes which they have given to the mountaineers. The latter will turn and attack the invaders at the first signal from Yskoob Khan, that is, when they feel sure of being supported. The further the English advance from their base of operations in India the more difficulties they will find in keeping open and guarding their lines of communication. When a favorable opportunity arrives we shall begin war in earnest."

THE NAVY.

RUTHERFORD B. HAYES, President and Com'der-in-Chief RICHARD W. THOMPSON, Secretary of the Navy.

JOHN W. Hogo, Chief Clerk.

VARIOUS NAVAL ITEMS.

THE Quinnebsug on the passage out made 13 1 2 nors under steam for three consecutive days.

The President, Feb. 28, approved the bill authorizing the Secretary of the Navy to accept, for the purpose of a voyage of exploration by way of Behring Straits, the ship Joannette, tendered by James Gordon Bennett for that purpose.

THE frigate Constitution will go into dock and re-pair in the Royal Arsenal at Lisbon.

GEN. GRANT and party expect to join the Richtaken on board at Nice.

THE Portsmouth is expected at Washington from Norfolk in a few days to take on board her battery.

CAPTAIN BENHAM reports by mail the arrival of the Richmond at Gibraltsr, twenty five days under sail from New York. She sailed from there, Feb. 12, for Villetranche.

THE Secretary of the Navy has conferred upon Captain Wm. B. Remey the appointment of Acting Judge-Advocate General of the Navy D partment.

THE Wyoming sailed from Palermo, Jan. 25, and arrived at Smyrna, Jan. 30, having experienced head winds during the passage. She takes the place of the Alliance

THE Despatch is to leave Constantinople soon for Nice. She will there take on board the crew of the Gettysburg and return to the United States. It is probable that the Gettysburg will be sold abroad, as it is thought that is the best disposition to make of

THE Senste, March 4, confirmed the following THE Senate, March 4, contrined the following nominations for assistant psymasters in the Navy, to fill existing vacancies: Chas. M. Ray, of D. C.; M. C. McDonald, of Penn.; Geo. M. Allen. of Indiana; John Corwine, of Ohio; Eustace B. Rogers, of Cal. The first two were Nos. 1 and 2 in the competitive examination last summer to fill the two vacancies then existing. The others were under special examinations.

The Suratoga expects to leave Washington on the 5th of August for Hampton Roads, where she will remain a few weeks, and then proceed on a cruise to the Azores, Madeira, Canary and Cape de Verde I-lands, and return home by Bermuda. Tois cruise will probably occupy her until July or August.

COMMODORE SHUFBLDT Writes to the Navy Doartment from Sierra Leone, under date of January 1, that he had received an official visit from the British Commissioners on the Liberian Boundary Question. The commissioners on the Liberian Boundary Question. The commissioners had not received their instructions from their government, and the commission would not be able to meet until they were received. The instructions were expected in a few days.

COMMODORE ANDREW BRYSON has been appointed president, and Captains F. A. Roe and J. A. Greer and Commanders J. A. Howell and A. T. Mahan and Chief Engineer W. D. Smith, members of a board for the professional examination of the mid-shipmen who graduated in 1876. The board will convene at Annapolis, Md., March 20.

THE Alert, whose arrival at San Francisco has on the passage from Yokohama. Very disagreeable weather was experienced, with gales, fogs, and much head wind. The whale boat was awept away Jan. 13, while the vessel was hove to in a gale, and in another gale, a few days afterwards, the rail of the 11 inch pivot gun was carried away by the sea.

A DESPATCH from Annapolis, March 1, says: "The cadet midshipmen were engaged in practice with great guns to day from the United States ship Santee, lying at the Naval Academy wharf. The target of canvas, conical in shape, the base being eight feet wide, was placed in the Severn about fifteen bundred yards distant. Lieutenant Duncan Kennedy superintended the exercises. The first class of midshipmen did the work of firing, with sections of the other classes rendering service as crews. Thirty-six shells were fired, and though the shooting was considered good, the target was uninjured."

A DAILY newspaper reports that the first iron cast. A DAILY newspaper reports that the first iron casting ever made at Annapolis was a weight of 55 pounds for a new cut-off for the United States steamer Mayflower recently cast. The Steam Engineering Department, under the immediate supervision of Passed Assistant Engineer Charles H. Greenleaf, is now repairing the Mayflower, and, at the same time, civing the cadet engineers practical instruction in giving the cadet engineers practical instruction in their profession. Recently this Department put a Stevens cut off on the United States steamer Phios. The two jobs saved the Government nearly four hundred dollars. As is customary with the grad-uates, the class of cadet engineers of 1879 is building a steam engine to leave behind them as a monument of their efficiency in their profession. This engine will have Stevens' new reversing gear

THE Panama Star relieves itself as follows: "For once in an age an American naval officer boasts of the speed of an American man-of-war. Should so extraordinary a circumstance excite curiosity as to the nature of the remarkable performance which calls forth so much glorification, we give space to the following paragraph, merely remarking that the speed mentioned has been exceeded in trial trips of English and German fron clads, while many of their fast cruisers, notably those described as commerce destroyers, can beat it any day of the week: The United States steamer Quinnebaug left Norfolk on the United States steamer Quinnebaug left Norfolk on the afternoon of the 4th 10st, for a steam speed trial under control of a board consisting of Chief Engineers H. Newell, E. B. Macomb, and William H. King. She anchored off the Wolf trap, in Chesapeake Bay, a distance of 105 miles from Annapolis, and made the distance between the two points in eight hours, being an average of over thirteen knots an hour. During this trial trip no sails were allowed to be used, the speed of the ship being due to the power of the machinery entirely. Capt. Farquhar and the officers were much pleased with the success of the ship, and consider that she will surpass in speed, under all conditions of sea and wind, any foreign man-of-war. The machinery was manufacforeign man-of-war. The machinery was manufac-tured in the Washington Navy yard from the designs

of the Bureau of Steam Engineering, but was placed in the ship in Philadelphis."

In response to an invitation from Commodore J. W. A. Nicholson, commandant of the Brooklyn Navy. W. A. Nicholson, commandant of the Brooklyn Navyyard, a deputation from the New York Chamber of Commerce visited the training ship Minnesota, Saturday, March 1. The young sailors went through an exhibition drill, great gun exercises, sword exercises, and a boxing match. The diving apparatus was next exhibited. Then the party adjourned to the cabin, where they were entertained by Captain Luce, who made a very neat speech, in which he showed up all the advantages of the training ship system. He said: "We have here at present over 350 boys who are learning a trade which will be a benefit to them in their battle with the world. We give them them in their battle with the world. We give them good instructions and they are cut off from any influences that might lead them in the wrong path. There is one thing certain," said the captain, "that boys who come here addicted to the use of tobacco [this reference is to the training ship Minnesta, not the Naval Academy.—EDITOR JOURNAL] and who have a habit of swearing, are, in the vast majority of cases, cured of their evil habits by the them in their battle with the world. We give them majority of cases, cured of their evil habits by the time they have served their apprenticeship. When the boys have gone through their time a majority of them may not return to the Navy, but wherever they go, and no matter what pursuit in life they choose, they will always feel the benefits of their training which led to his invitation to the Chamber of Com-merce. It was simply this: There is a bill before Congress in which a clause was inserted giving power

so that they could be perfectly trained in the art of seamanship, and made competent to perform all the duties of a sailor. There is no money asked, the Secretary having enough to defray all expenses; all that is wanted are the boys. At the present time there are but 7,000 men in the United States Navy. Captain Luce was followed by Mr. E. C. Cowdin, who spoke in glowing terms of the future of the American Navy. After several speeches, nearly all of which deprecated the Government's want of justice or forethought in not paying a subsidy to American or forethought in not paying a subsidy to American vessels for the carrying of mails, one gentleman said that it would be well if the members of the Chamber of Commerce present took action in reference to the Navy bill. So, on motion, Mr. Lane was voted to the chair. He called the meeting to order and put the question, whether those members of the Chamber the question, whether those memoers of the Chamber of Commerce present would be in favor of asking the passage of bill 2,240. It was carried unanimously. It was then moved and carried that the Vice President of the Chamber of Commerce be requested to telegraph immediately to Washington, which he

to the Secretary of the Navy to enlist 740 boys more, so that they could be perfectly trained in the art of

NAVY GAZETTE.

ORDERED.

MARCH I.—Paymaster Henry G. Colby, to the Tuscarora, at Acapulco, Mexico, per steamer of April 5.

Passed Assistant Engineer Albert C. Engard, to temporary duty on board the Asiaric Station to report for duty on that station.

Marcu 3.—Midshipmen Stimson J. Brown, Henry C. Gearing, George C. Foulk, Burns T. Walling, Templin M. Potts, William H. Allen, James H. Sea*, Stephen Jenkins, Ciliford J. Boush, Edward M. Katz, Charles C. Rogers, Walter McLean, Henry T. Mayo. Abraham E. Culver, Lovell K. Reynolds, William L. Varnam, Richard Henderson, Charles F. Pond, Robert C. Ray, John T. Newton, Waldemar D. Rose, James C. Gillmore, Augustus E. Jardine, Washington I. Chambers, Francis H. Sherman, Chas. A. Gove, Louis W. Pleymeyer, DeWitt Coffman, Benjamin Tappan, John M. Proudit, Henry Minett, William G. Hannum, Richard T. Mulligan, William S. Hogg, Eistner N. Fisher, Edward E. Wise, Thos. D. Griffin, and William Braunersreuther, to report to Commodore Parker at the Naval Academy on the 20th March for examination preliminary to promotion.

Cadet Midshipman Albert Gleaves, to the Plymouth, at Boston, Mass.

March 6.—Master A. J. Dibney, to the Alert.

Cadet Midshipman Alvert Glock of Mids.

March 6.—Master A. J. Dibney, to the Alert.
Ensign E. J. Dorn, to the receiving ship Colorado.
Gunner W. J. Ferguson, to the Plymouth.

DETACHED.

March 1.—Paymaster Frank Clark, from the Tuscarors, at Acapuico, Mexico, and ordered to return home and report ar-

Acapaico, Mexico, and ordered to return home and report arrival.

Chief Eugineer John W. Moore, from duty at the Navy-yard,
Washington, on the lat of April, and ordered as member of the
Board of Inspection.

Chief Engineer Wm. B. Brooks, from duty as member of the
Board of Inspection on the 31st March, and ordered to duty at
the Navy-yard, Washington, on the 1st April.

Marcu 4.—Lieutenant-Commander John Schouler has re is return home, having been detached from the Essex tlantic Station, on the 11th January last, and has been

n sick leave.

Pay Director John 8, Cunningham has reported his roome, having been detached from the Hariford, South Atstation, on the 1st January last, and has been placed on MARCH 5.—Gunner G. Dunn, from the Plymouth, and wait

COMMISSIONED.

COMMISSIONED.

Commodore Charles H. Boarman, on the retired list, to be a Rear-Admiral on the retired list from August 15, 1876.

Lieutemant-Commander William Gibson to be a Commander in the Navy from January 13, 1879.

Master Georre L. Dyer to be a Lieutemant in the Navy from February 5 1879.

Energin Thomas B. Howard to be a Master in the Navy from January 13, 1879.

Energin Thomas B. Howard to be a Master in the Navy from January 13, 1879.

Energin Albert A. Michelson to be a Master in the Navy from February 5, 1879.

APPOINTED.

Charles M. Rae, of the District of Columbia: Charles McDona of Pemsylvania; Geo. M. Allen, of Indiana; John Corwine, Ohio, and Euetace B. Rogers, of California, Assistantlyaymast in the Navy from March 3, 1879, to fill existing vacancies.

(Contributed to the Army and Navy Journal.)
"SEA FOAMS," OR "NAVAL YARNS."—NO. XVI. " ALL HANDS CLEAR LAUNCH, AHOY!"

SEVERAL groups of sailors were smoking their pipes and discussing the probabilities of the day. They were on the port side forward, under the forecastle, or

about the forehatch.

"See here," said an old man, the captain of the afterguard. "See here, you, Richard Bean, as soon as
you're through with your pipe, you will lay aft and
strike up the starting tub."

And, turning to two others, he continued:

'And you, John Stout, and Edward Reel, go and get them hose off the reel, and clap'em on the tub.

l'll see to getting the capstan bars up, and removing the ladder."

As he capt

As he got through speaking, the boatswain's mates piped their calls, and their discordant voices resounded through the ship:

All hands!

The order to turn hands to work

At that sound, the pipes were extinguished; the conversations ceased, and the men repaired to their several stations at the different parts of the vessel.

stations at the different parts of the vessel.

The boatswain, a pipes were again heard; this time followed by the order:

"All hands clear launch, ahoy!"

There was a rush to the port gangway. The main and foretop men broke out, cleared away, and prepared to trice up the yard and stay tackles. Topmen went aloft, and threw down a whip for the stay, while men on the main yard did the same for the yard tackle.

The launch's crew had manned their boat, got her snugly alongside the gangway, received their slings, and prepared to slinging the barrels.

Reader, this occurred in the good days when grog formed a part of the naval ration; when Jack doubled the tub, if he could, and didn't think it wrong to weather the officer superintending the serving out of the fluid. It was in the days when the Navy was manned by seamen, men who had learned their profession at sea. Abolishing the grog ration drove our very best tars to the bulwarks of England.

The launch was laden with the spirit ration, and so jealously was it guarded that a corporal stood on her stern, and a sergeant on the gang board to watch the crew.

To strike on board the grog, necessitated an officer in the spirit room to watch the captain of the hold and his assistant, a sentry on the berth deck, near the spirit room hatch, and two on the quarter deck, at the hatch where the bung was knocked out and the liquor started. For it was there the tub was lashed to capstan bars across the hatch, and from there the hose led to the spirit room tanks or casks.

It will be observed from the number of sentries, that Jack could not, be trusted in the neighborhood of grog. Indeed, it required alertness to foil him in his endeavors to get at the "letilleest drop of the creature." And if the officers and sentries were on the lookout, Jack was no less so, concocting some means

ture." And if the officers and sentries were on the lookout, Jack was no less so, concocing some means by which to reach the desired end—a drick.

When the barrels were slung, the boatswain's mate, who stood on the hammock nettings, piped:

"Ready!" Then, "Walk away the yard!"
The fifer struck up a lively tune, and away marched the men hauling on the yard fall.

As soon as the barrels were high enough to clear the hammock nettings, the boatswain's mate piped:

"Belay the yard; away the stay whip!"
The men at the stay whip walked away with it, while those at the yard slacked them off. And when the barrels were perpendicular over the port gangway the barrels were perpendicular over the port gangway deck, the batswain's mate piped:

"Lower away together!"

The barrels were rolled to the hatch by the afterguard and mizzen topmen. Two barrels were placed over the capstan bars, bungs knocked out, and the The

over the capstan bars, bungs knocked out, and the whiskey started.

The fourth barrel had just been emptied, when a loud voice was heard at the port gangway, and two men were seen struggling as if in deadly conflict.

The officer of the deck rushed to the spot, calling on the petty officers and sentries to assist him in parting, and arresting the belligerents. As they did so, the crew crowded around them. During that time, no crew crowded around them. During that time, no less than four buckets of grog passed from the hatch forward on the starboard side of the deck. And as they disappeared, the belligerents declared, and proved by their shipmates, that they were only "Skylarking, sir, and not in earnest." It must be said here, that when the barrels were emptied they were rinsed with salt water, that Jack might not fancy the leavings.

The officers and sentries had returned to their stations, and everything had gone on well for an hour or so, when the cry was heard,

"Man tumbled down the hatchway, sir."
Again the officer of the deck called for assistance, and sent for the doctor; and again four more buckets

and sent for the doctor; and again four more buckets of grog were passed forward.

True enough the man was down on the berth deck hatch, with face indicating great pain, but he was not hurt. He was helped forward by his messmates; and as he got beyond the hearing of the officer of the deck, he winked, and said:

"How many gallons this time, boys?"

The day was one of secidents, and alertness also, with occasional relaxations thereof to assist the distressed, or to maintain discipline.

It was at supper time, when the boat had been discharged, and the starting goar restored to their places, that it was noticed, several tars were rolling more than usual; while the gait of others combined the roll and pitch.

and pitch.
"Anderson," said the officer of the deck, "you're drunk.

Sir; hic, drunk, sir; hic, ain't touched a drop, sir;

"Sir; hic, drunk, sir; hic, ain't touched a drop, sir; only my ration, sir."

"I say you are drunk, Anderson."

"Must have been the smell, sir; I've been starting the barrels, sir, hic; just been told, hic, captain of the hold, hic, ain't no better than I is, and he don't drink his grog, hic. It's all in the smell, sir; I swear it."

About this time there appeared another personage on the scene of action, no less than Midshipman Pry, who delivered himself as follows, to the officer of the deck:

"I believe. sir. these men who appear to be intoxi-

Pry, who delivered bimself as follows, to the officer of the deck:

"I believe, sir, these men who appear to be intoxicated, have been poisoned. I poured a poisonous solution in the buckets which I discovered in the manger, and which I believed contained slops."

"Lord!" exclaimed Anderson, "I am done for, I drank some of it."

"Quickly," exclaimed the middy, "rush down to the Sick Bay to the doctor."

And then turning to the officer of the deck, he asked permission to have the word passed, warning the men who had drank from the buckets to hasten to the doctor for an antidote.

who had drank from the buckets to hasten to the doctor for an antidote.

The pipe shrilled, and the word passed:

"You hear, then, fore and aft, all you whose been a drinking out of them there buckets, what's in the manger, hurry down to the doctor to get an anecdote."

The words were hardly out of the boatswain's mate's mouth, when he staggered below, with hand clapped to his left side, and complaining of violent pains.

No less than thirty half intoxicated men presented themselves to the doctor, who took down their names, and gave them an emetic.

It appears that Midshipman Pry. while hidden from

and gave them an emetic.

It appears that Midshipman Pry, while hidden from the crew, had observed them steal and stow away the whiskey. He had arranged with the doctor to dose it, and then frighten the offenders.

Well, most of them threw up the grog which they had obtained illicitly. Next morning they were mustered; told how they had been gulled, and, then, for the better government of the Navy of the United States, were struck a half dozen lashes with the cats on the bare back.

"You can take that as the antidote or 'anecdote."

on the bare back.
"You can take that as the antidote or 'anecdote,'"
said Captain Right, as he ordered the boatswain and
his mates to "Pipe down!"
Bob Stay.

his mates to "Pipe down!"

Bob Stay.

Lieutenant Murray S. Day, U. S. N.—This officer died at St. Thomas, W. I., Dec. 27, 1878, on board the U. S. ship Vandalia, of typhoid fever. Lieut. Day was a distinguished officer of the Naval Service of the United States, and a son of General Hannibal Day, of the Army, and grandson of the late Dr. Sylvester Day, surgeon of the United States Army. He was born at Buffalo Barracks, April 12, 1845; he graduated at the Naval Academy in 1866, and made his first cruise in the Sacramento, which was wrecked off the coast of India, 1867. He, with other officers, and a number of sick, escaped on a raft, and floated 53 hours without food or drink, until rescued by an English steamer. He next salled in the Powhatan, of the Pacific Squadron; was at Lima at the time of the gre t earthquake and tidal wave on that coast, when he was sent to relieve the sufferers. In 1871 he was an officer of the Hussler, which carried the Agassiz scientific expedition, and in the same year was selected for his scientific attainments for an appointment under the Japanese government, to make a hydrographical curvey of the island of Yesso, a task which he performed to the entire satisfaction of that government, making at the same time valuable ethnological researches. He was afterwards attached to the Treaton and the Vandalia on the European Station, and was homeward bound when he died. Lieutenant searches. He was alterwards attached to the Irra-ton and the Vandalia on the European Station, and was homeward bound whon he died. Lieutenant Day was a man of fine physique, talented, accom-plished, faithful to duty, dauntless in danger, but plished, faithful to duty, dauntless in danger, but tender and affectionate in all domestic relations. His wife, who survives him, is a daughter of General G. S. Greene, formerly of the United States Army, and he leaves two children.

During the year ending March 31, 1878, in the German navy disease was more prevalent on board ship than on shore. Each man was ill on an average in the course of the year on shore 1.5 time, on board nearly 1.6 time. In the whole navy, numbering 8,916 men, 830 per thousand were cured, 3.6 per thousand died in the hospitals from disease, 71.1 per thousand left hospital, and 25.2 per thousand remained in hospital. The whole mortality in the navy amounted to fifty-two cases, of which thirteen died on board, thirty-nine on land. Of this number forty-four died of disease, six by accidents, two committed suicide. In the majority of cases consumption was the cause of death. On shore chronic, on board acute, forms of diseases prevailed.

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VANITY FAIR for Meerschaum and Cigarette. See Advertisement

EDW. S. FARROW, 2d Lieutenant 21st Infantry, U. S. A., has transmitted to the War Department a work on Rifle Practice, requesting its submission to a qualified and experienced board with a view to its adoption. The various chapters treat of the rifle; the centre primer metallic cartridge; the propelling force; targets; siming; deviation of the rifle; estimation of distances; the trajectory; influence of atmospheric resistance on the trajectory; influence of wind on the trajectory, and the influence of light and moisture on the trajectory. The appendix contains a system of target practice for the use of troops. The Creedmoor system as presented in Wingate's Manual of Rifle Practice, has so firmly established itself in this country, that it would be unwise, as well as impracticable to disturb it, and we presume Mr. Farrow will not undertake to do this. What ground is covered by his work that is not covered by the exsting manual we are not informed.

In a letter to the London Times, Mr. Bessemer reports that he has devised a small instrument capable of showing on a graduated arc the precise angle in degrees and minutes of any gun on board ship, and so arranged that at the instant of time at which the chase arranged that at the instant of time at which the chase of the gun arrives at any predetermined angle of elevation, metallic contact is made, and the gun is instantaneously fired by electricity. This accurate mode of firing being subject to slight errors, such as may arise from the time of ignition of the charge and the time occupied by the projectile in traversing the chase of the gun, etc., the instrument is provided with a means of adjustment which permanently corrects and climit the gan, etc., the instrument is provided with a means of adjustment which permanently corrects and eliminates these and other sources of error, so that the firing angle determined by the instrument indicates the precise angle of elevation at the instant at which the projectile issues from the muzzle of the gun, and should thus render the firing of a gun at sea nearly as accurate as one on shore.

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CONGRESS AND THE ARMY

THE Forty-fifth Congress has adjourned without making the annual appropriation for the Army. This is the lame and impotent conclusion of a sorry performance. The supply bill fell where the Senate left it, because there was disagreement about the section which discontinued the use of troops to keep the peace at the polls. Thus once more a measure for the routine support of the national military es tablishment, which has no more to do with party politics than with the colonization of Africa or the discovery of a magnetic motor, is loaded down and crushed under party strife. One side holds back; the other will not give up : the Army, the sufferer, is sent off with no appropriations, and can only find scant consolation in muttering, like MERCUTIO, plague o' both your Houses!"

But we are glad to say that there is nothing yet to cause anxiety in the situation. The Forty sixth Congress is summoned for a week from Tuesday. The two appropriation bills that failed will be at once brought up, probably, after the organization is effected. If the annual Army bill is passed, with or without the famous section that gives so much trouble, it will still be in ample season for the next fiscal year, which begins only July 1. In this respect the situation is much more reassuring than two years ago.

The chief difficulty, apparently, would be created by the President's veto of an Army bill on which Congress should insist, and which it nevertheless could not pass by a two-thirds' vote. We are not, however, to presuppose this case; the probabilities are of a more creditable result.

SAVING LIFE AT SEA.

THE modern increase of ocean trade and travel has made the question of life-saving devices and appliances one of continually growing interest and importance; where once it personally affected only a very small part of the community, it now extends throughout society; indeed, the earnest and eloquent appeals made in Congress for the past two years in behalf of the Life saving Service, show how it has come into the foreground as a question of the

Those who heard Lieut. T. B. M. Mason, of the Navy, upon this subject, in New York, a few evenings since, had that pleasure and profit which come from listening to one who speaks of what he understands-an officer who, with great renown, taught by example even before he taught by precept. We are glad to present here the leading features of Lieut. Mason's dissertation; for, as it is an axiom in peace to prepare for war, so the part of wisdom is to make the mind familiar with the means of saving life at ses, and to have some of the devices for that purpose at hand, instead of leaving everything to the hour of

danger. Even that coolness which is then of the highest value will have been aided by a repeated foreseeing of all the possibilities.

What strikes us chiefly, in this subject, and especially in Lieut. Mason's presentation of it, is that the greater part of all that needs to be done, or that can be done, in nine cases out of ten, can be effected by very simple precautions, expedients, and devices. First, of course, comes a knowledge of swimmingyet most persons do not have this, and many a sailor cannot swim. Children should be taught to swim, not by plunging them into the water, and so frightening them, on the one hand, nor, on the other, by giving too much support in holding up the head or by life-preservers. They should be convinced by actual sight, that the body, being full of air, floats like an empty bottle, the nose being like the spout of the bottle; that they need only, therefore, keep the nose out of water; the mouth, of course, being closed; that, as the body's extra buoyancy is about eleven pounds, in an ordinary sized man, and the weight of the head is from eight to nine pounds, unless the head is pushed up out of the water the body will take care of itself. At the Naval Academy, the pole attached by a line to the swimming belt, a familiar contrivance, is used. The instructor shows the pupil how to strike out with feet and legs, and supports him with the pole and band. Before the lad is well aware of the fact, the instructor is able to inform him with truth that he is swimming. Floating, swimming on the back, and swimming without the arms, in order to have these at command for assisting others, should then be learned.

Next to personal efforts come aids to personal efforts-life jackets and life preservers. The best authorities prefer the cork jacket, as rubber and metal are liable to be injured by wear, corroding and puncturing. That every vessel should carry a supply of good life-preservers, is conceded; but Lieut. MASON adds :

Every boat that leaves a ship, or the shore, on service which is not perfectly safe, should have enough life-preservers for its crew and passengers. At eas, these should be kept in the boats; these jackets should always be put on. In practice, however, it has generally been found that men pulling take them off, because they interfere with the arm, forcing it to take a position to which they are unaccustomed in rowing; to obviate this I have designed a jacket, which has been made by Mr. W. H. Godfrey, of this city, furnisher to the Navy and Life-saving Service.

Lieut. Mason recites the various laws in the staute book regarding life preservers, and adds:

tute book regarding life preservers, and adds:

How these laws are actually carried out, can be seen by any person who travels as far as Brooklyn or Jersey City. The life-preservers are on board, but where are they? Strapped up under the cabin celling, where no one but a giant could possibly reach them, or stuck under the seats, where none but an expert would notice them. In river steamers they are generally stowed in boxes where no one unacquainted with the fact could ever find them. In ocean steamers they are often kept in some out-of-the way locker. In men-of war the small number allowed can usually be found in the furthest corner of the yeoman's store-room. They should be fitted with a simple system of webbing straps, not leather, and should tie, not buckle. They should be kept, well in view, in places where they can be reached at any time by passengers. In steamers, where passengers sleep, there should always be one jacket near each bunk, besides those on deck. In conspicuous piaces, near where they are kept, should be printed notices, with drawings, teiling and showing how they are to be used, and advising the passenger to examine them closely, and even to put them on, to tie the straps, to fit them, and become thoroughly familiar with them. The straps should always be securely sewed to the jacket, so that they cannot be pulled off or lost. The jacket should be worn just under the arms, these latter thrust through the armholes or suspenders. They should be tied in front of the body; in this position they serve to keep the nose and mouth out of water. Many bodies have been recovered with the preserver about the waist, and, in some cases, about the legs.

A most important matter is the use of the beds and

A most important matter is the use of the beds and other cushions on shipboard as life-preservers. A mattress filled with cheap cork shavings—a substance usually thrown away—has great buoyancy. A cotton canvas hammock, containing a mattress stuffed with cork shavings, tested by Lieut. O'NEIL, U. S. N., sustained sixty-two pounds one hour and five minutes, and thirty two pounds indefinitely. The same hammock, placed in a closely woven water-proofed cotton canvas bag, had its buoyancy increased about four times. Twenty hammocks thus provided, lashed together with a frame-work of spars, would support a 2,000 pound anchor. OSTERMOOR'S mattress, stuffed with felt, has just been adopted by the Navy Department, and issued for trial, and it is also approved by a board ordered by the Steamboat Inspection Service :

tion Service:

A bunk mattress of this kind supported one man weighing 180 pounds, who stood upon it, and a dead weight of fifty pounds of iron, without sinking enough to wet its upper side. It supported two such men, only wetting the soles of their shoes. After twenty-four hours' floating, the ticking having become saturated, the inside was examined and found to be totally untouched by moisture—the extreme outer fibres of the outer sheets being barely touched by the dampness. Heavy weights were then used to sink it, and it remained under water forty-eight hours; upon being examined at the end of this time it was found that the moisture had penetrated between the sheets, the interior of the sheets themselves being entirely free from dampness. The mattress was then dried, when the usual softness and springiness was observed to return to the material. So well pleased were the board with the comfort and cheapness of the mattress, that they recommended it even for shore use. They have, however, already been used for a long time on shore, and even affort.

Alexandre's New York, Havana, and Mexican Mail Steamship Line has used them for two years. Pullman uses them in his sleeping cars, and uses the material for stuffing the cushions of his palace care, and for the care of the Metropolitan Elevated Railroad. They are used in many of the hospitals and public institutions. All who have used them testify in highest terms as to their softness, their not lumping, and their cleanliness—there being no animal oil or fat in them. The objection to mattressee stuffed with cork is their hardness and sogginess after being in the water for some time. To those with water-proof covers, their mell. A felt-stuffed pillow weighing three and a half pounds, on which was placed thirty pounds of fron, is reported by the steamboat inspectors to have floated eight days. A chair cushion would therefore support a man in the water with the greatest ease.

If travellers by sea who are so particular about the comfort of their state rooms or their places at table, would spend a little of their inspection on the life-saving contrivances, the buoyancy of the mattresses, the places and numbers of the boats and life rafts, the trying on of the life preservers, and so on, they would not only know beforehand whether the ship was properly provided with these things, but would create a public opinion which would react on owners, and cause them to furnish adequate appliances. Terrible experience has caused some lines of ocean steamers to be at last well fitted out in these respects-better than some others which have not yet had such experiences.

Life buoys are for dropping to a person in the water; they sometimes have a little red flag, for day work, or at night some contrivance for lighting, so as to be better seen. In our service portfire is used for this light. Sometimes the wind or current may carry the buoy away from the swimmer. Mr. R. B. Forbes reports very excellent results in preventing this by attaching to each buoy a little canvas cone, which acts as a drag or sea anchor. About the decks there should be a number of ring buoys, which a cool person may pitch almost into the hands of a person overboard. The person assisted should not attempt to climb on a life buoy; it is for support while the body is submerged. As to restoring the apparently drowned person, the rules of Dr. Howard cover the case, and the methods are generally well known, though they should be posted in steamers and ferry houses, and on wharves and bridges, even if only to be learned by the idler, as well as for actual reference.

As to boats, the first great trouble is in the processes of lowering and detaching, which consume so much time. Lieut. MASON commends the davit of Mr. Forbes, and also the boat detaching apparatus of Ensign Fiske, of the Navy. A ship's boats should be, if possible, of the life boat type; if they are not, they should at least be fitted with air tanks under the thwarts, or cork paddings round the rail outside. The rudders should always be kept shipped. An oar is preferable to a rudder, if properly shipped, when quick work is to be done. But a large vessel cannot carry boats enough for all on board; she must have life raits. Lieut. MASON says:

have life rafts. Lieut, MASON says:

The Rider life raft is the one which seems best to meet the requirements of the case. These have been adopted in our service. The model is furnished by the present makers to the Navy, the "Gondois Life-boat and Raft Company." The advantage of this contrivance is, that it affords a very large amount of buoyancy when submerged. It is very light, and when not infisted takes up but little room.

Admiral Ammen, who recently addressed this society on the subject of the Isthmus survey, is the inventor of a bolsa very similar in form to the rubber one, but with the floats made up of staves, like a barrel. In the water it is excellent, but it does not stow as well aboard ship.

The crew of a vessel stranded should only leave her in their own boats as a last resort. They should establish the line communication, to be referred to hereafter, or wait for the boat from the shore. Few saliors are good surfmen; in fact, it is a profession by itself. Not being surfmen, they cannot prevent their boats being upset or pitch-poled (thrown end over end) when they get in the surf. If they do have to use their boats, they must anchor outside of the surf and get up a line communication from there. If it is absolutely necessary to go through the surf, a faxible rafk made of hammocks or mattresses, which will be found much safer than a boat.

We see references made to water-tight compartments and collision builkheads. They do not exist, in practice, any more than we can call the walls of this room water-tight. Some of the vessels are provided with paritions, which might be made water-tight, but not at the moment when they are needed. To be of use, they must be so beforehand. There must not be a single opening in them below the water line, and even for some distance above it, as the line of floation would be raised, by the filling of one of the compartments.

Much attention is also given by Lieut. Mason to the subject of collisions and strandings at sea, and the modes of preventing them, so far as the ships' officers are concerned. He recommends an electric light at the masthead, to be supplied with electricity by the engines, and operated or extinguished by the officer of the deck. In treating of upsetting, he calls attention to the excellent new method of Mr. Forbes for reducing top hamper. As to improved compasses and sounding apparatus, those of Capt. BELKNAP and Lieut. Commanders SIGSBER and JEWELL, and the method of approaching dangerous places proposed by ex-Lieut, TRUEDELL, of the French navy, are of much value. Lieut, Mason

insists that more use should be made of the fact that fogs are generally not high above the water:

A versel's masts sometimes project into a clear atmos above—if a man is sent aloft, where, by the bye, one of always to be, at least during the daytime, to look out for wand rafts, or boats, he can often see the masts of approa-vessels, land, and other high objects. This is not gene thought of, even by sea going people.

To the large part of Lieut. Mason's lecture devoted to the Light House service, the Coast Survey, and to the various life-saving societies of our own and other countries we shall need to pay less detailed attention. though we should gladly transfer the whole to our pages, did space permit. Amongst the chief suggestions is the important one that every light house and outlying light ship, especially the latter, should be a signal and telegraph station. They would then give timely warning of bad weather and of wrecks.

In our country, the first regularly organized society for preserving and restoring life was the Massachusetts Humane Society, formed in 1786, incorporated in 1791. It began the erection of huts, for the shelter and comfort of persons escaped from wrecked vessels, in 1789; the first one being erected on Lovell's Island, near Boston. It maintains at the present day eight such huts. Its first life boat station was erected at Cohasset, 1807. It has now 76 stations. The second society was the Life saving Benevolent Society of New York, incorporated in 1849. In the Government service there are three classes of stations--life-saving. life-boat, and refuge. The small surf boat is used at almost all. The great difficulty in all cases is the smallness of the annual appropriation, and consequently of the crews, and the feebleness of the ap pliances.

Of Lieut. Lyle's recent bronze, muzzle-loading, mooth-bore, life-line carrying gun, we have already had occasion to speak, in writing of the work of the Army Ordnance Corps. Mr. Hunt, of Weymouth, Mass., has invented an apparatus for throwing lines. But the great trouble is that hitherto all lines have gone from the shore; and they should really go from the ship. However, says Lieut. Mason, "until we can force shipowners and governments to provide their vessels with some means of sending lines, and even having them to send, we must continue this method." As a very practical device, some experiments have been made to use existing naval guns, both Capt. RALPH CHANDLER and Lieut.-Comd'r W. M. Folger, having obtained excellent results:

M. Folger, having obtained excellent results:
Rockets might be used wirh good effects. With as weak a rocket as our common signal one, I sent a line four hundred feet last year. A small line fastened to the ramrod of a musket might be used for short distances. Capt. Nares, of the Roglish Navy, known to you probably in connection with the voyage of the O. allenger and 'he last Arctic expedition, proposes a large kite, made of canvas and spars and fitted with two lines, so that it can be guided up or down. To this I have added an anchortail. Such a kite would also be of use in communicating between vessels at sea where it was dangerous to lower a boat. A line fastened to a box or barrel might drift ashore.

An expert swimmer in a life preserver, or on a mattress or boles might reach the shore in safety with the end of the line, if better means were not at hand. Captain James E. Jouett and Lient. Comd'r. W. B. Hoff, of the Navy, have invented as apparatus which will probably be adopted. It consists of a float carrying a reel, on which can be wound 6,000 feet of line. At the forward end is a large rectangular shield. The shield is so placed that, no matter how the float turns, one corner will always be up to act as a sail land one down to act as an anchor. The weight of the apparatus is about 200 pounds.

With a lucid description of the working of the life-saving system as it now exists, Lieut. MASON closed a clear, comprehensive, and valuable lecture, on a most interesting and important topic. It has attracted much attention, and we cannot doubt that it will bear good fruit in public opinion, in popular instruction, and in legislation.

BACK PAY FOR MEXICAN VETERANS.

THE following is the law approved Feb. 19, 1879, granting three months' extra pay to officers and soldiers who served in the Mexican war:

who served in the Mexican war:

That the Secretary of the Treasury be, and he is hereby directed, out of any moners in the Treasury not otherwise appropriated, to pay to the officers and soldiers "engaged in the military service of the United States in the war with Mexico, and who served out the time of their engagement or were honorably discharged," the three months' extra pay provided for by the act of July 19, 1848, and the limitations contained in said act, in all cases, upon the presentation of satisfactory evidence that said extra compensation has not been previously received: Frontied, That the provisions of this act shall include also the officers, petty officers, seamen and marines of the United States Navy, the revenue marine service, and the officers and soldiers of the United States Army employed in the prosecution of said war.

The provision for extra pay in the act of July 19, contained in the last section of that act as follows:

Chapter 104, Approved July 19, 1848, Vol. 9, p. 247.

Chapter 108, Approved July 18, 1948, 705. 3, p. 241.

An act to amend an act entitled, "An act supplemental to an act entitled, "An act providing for the prosecution of the existing war between the United States and the republic of Mexico," and for other purposes. . . Sec. 5. That the officers, non-commissioned officers, musiciars and privates engaged in the military service of the United States in the war with Mexico, and who served out the term of their engagement, or have been, or may be, honorably discharged—and first to the widows, second to the children, third to the parents, and fourth to the brothers and

sisters of such who have been killed in battle or who service, or who, having been honorably discharged, had died, or may hereafter die, without receiving the three pay herein provided for—shall be entitled to receive three extra pay. Provided, That this provision of this fifth shall only apply to those who have been in actual service the war.

By a resolution (No. 9) passed by Congress July 29, 1848, it was provided that these claims should be settled by the Pay Department. A subsequent resolution (No. 9) passed July 25, 1850, transferred their settlement to the Second Auditor of the Treasury. At the time the above act was passed, Secretary of War Marcy construed it as not granting the three months' extra pay to those in the Regular Army of the United States. The act itself was repealed by act of July 15, 1870, and is now revived in its present form

If those who are entitled to back pay under the provisions of the new act will send their names to us we will endeavor to see if some arrangement cannot be made by which the money can be promptly obtained and forwarded to them with little or no expense. It is only necessary to ascertain m one instance what course of action must be taken to procure the back pay and to follow this routine in other cases. There ought to be money enough coming to the members of the "Aztec Club" under this bill to enable them to dine together in the handsomest manner several times a year, for the remainder of their natural lives.

All the volunteers and "Ten regiment regulars' who were discharged in the latter part of July, or in August and September, 1848, received their three months' extra pay at the time of their discharge from the Paymaster of the Army. Many of them may have been unaware of the existence of the law, and perhaps made no note of receiving extra pay at date of discharge. The Second Auditor has intimated that "it is safe to assume that all regiments, companies, detachments and individuals mustered out and honorably discharged after July 19, 1848, have been paid thre months' extra pay, excepting such as were mustered out and paid at remote stations very soon after the passage of the act. Of those discharged prior to July 19, 1848, a very large majority have already received the extra pay.'

Amonger the pills that failed in the last Congress was a batch of forty, introduced by Mr. Maish, granting compensation or rent for the use of battle gi and camping grounds in Pennsylvania by the United States troops, during their defence of that State from Gen. Lee's invasion in 1863. Of these bills 750 copies each were printed, making 30,000-had they all be condensed into one, there would have only been 750 and that would have been a pity. The bills each rea - county, Pa., shall be paid so - of many dollars "in full compensation for the use and occupation of his lands by United States troops during the late war, and for property belonging to him taken and used by said troops." The aggregate amount of the bills was \$67,131. A weg was induced to ask whether the "property taken and used" included any water furnished solciers at five cents a glass"dently thinking that the latter should be a set-off agains the amounts claimed. We think, however, that the five-cents-a-glass story, or the one-cent-a-glass is a fabrication; we do not remember ever to have seen the proof of such sums being demanded, and of course voluntary offerings by thirsty soldiers on the march to little country lade, would be a different matter.

In noticing the interestting Life of Commodore Tattnall, some weeks since, we had occasion to record that when that officer passed out of the service of the United States, he received a commission as "senior flag-officer in the Navy of the State of Georgia." circumstance caused us to reflect on the question of the States as naval powers; and to wonder if State navies now exist as well as those State armies which certainly do, in the form of militia. Under the constitution of Massachusetts, it is said, the Governor bears the sounding title of "Governor, Commander-in-Chief of the Land and Sea Forces of the Commonwealth, Captain-General, and Admiral." The Navy of the United States has been reduced to a very small compass; but who can say that there may not be large State navies, commanded by senior flig-officers and admirals, whose existence may hitherto have been almost unsuspected by the general public?

DURING the discussion of the Naval Appropriation bill at the DURING the discussion of the Navai Appropriation bill at the late session of Congress, Senator Whyte, of Maryland, made and announced the remarkable discovery that the plumber at the Navai Academy was paid \$2 a day. Such remuneration for a plumber seemed incredible, especially in midwinter; and Mr. Whyte proposed to amend the bill by making the plumber's wages \$3. Unfortunately, a point of order ruled out this amendment; but the shock of wonder remained in the Senate, as it must a o in the shock of we

CORRESPONDENCE.

or of the Army AND NAVY JOURNAL does not eible for individual expressions of opinion in blished under this head. His purpose is to the ord diseased on consistent with propriety

LETTER FROM MEDICAL INSPECTOR TURNER

To the Editor of the Army and Navy Journ

Sin: Medical men and "learned doctors" are pretty much agreed that heredity, in a great degree, if not entirely, is the sum of the antecedents, moral as well as physical, of the individual. In your issue of Feb. 15, 1879, I read that a deformed descendant of drunken Noah, under the name of "Dick Deadeye," feels called upon by "natural inference" (whatever that may be) to associate the pamphlet on "Air and Moisture on Ship Board," with the Tennessee. How the "natural inference" is arrived at is but slightly apparent, save that it is the reasoning of a "natural," as idiots are sometimes called.

sometimes called.

The only al'usion to that vessel in the pamphlet is the copy of the routine from the original; nothing

more—nothing less.

The writer, at some future time, proposes to present his observations and registrations with regard to that ship, and begs to say to this dead-eyed person that he has not forgotten any single fact relating to his last

cruise.

Consilering the deformity which permits him to see with but one eye, and that his defective cerebration leads him to cowardly malignity and cunning in thus pusillanimously screening himself under his nom deplume, the writer has sincerest pity for this ill-descended bit of imperfection. There is, however, a gleam of satisfaction in the article, and that appears to be concern for the "efficiency" of the service; and that, from a "memorial" on the writer's table, seems to be an abnormal condition, if one can believe the certified names of other cyclopean associates of "Dick Dead yé" appended to that document. However, if the shot aimed at the target of the nuisance of wet decks has hit and wounded one of the target keepers so as to produce a howl, which may perhaps, demand a holy stone for a monument, the writer has cause to congratulate himself.

"Let the galled jade wince, our withers are unwrung."

"Let the galled jade wince, our withers are unwrung." T. J. TURNER.

WASHINGTON, February 21, 1879.

We can find nothing in the communication signed "Dick Dead-eye" that justifies the severity of this answer, and for this reason inserted last week only so much of this as contradicted "Dead-eye's" statements or inferences. As Dr. Turner insists that it is essary to his vindication that we should publish his letter entire we give it here, leaving our readers to settle with its author a question of good taste about which there is an irreconcilable difference of opinion between us and the Doctor. His reference to a "memorial" shows that his letter is intended, in part, as a reply to something besides the communication in the JOURNAL.—EDITOR

THE THUNDERER ACCIDENT.

To the Editor of the Army and Navy Journal :

Sir: The last report from the *Thunderer* is to the lect that two charges were in the gun when it excluded. At first thought it would seem an impossiploded. At first thought it would seem an impossibility to have two charges in a great gun without the fact being detected; but on thinking over the whole operation of loading and firing the thing appears more probable. The first charge was probably rammed home, and when the primer was fired it failed to ignite it. The fact that the gun did not go off would have escaped the notice of both the people in the turret and the loaders in the chamber below. In a turret it is almost impossible to tell by gound that one gun of the escaped the notice of both the people in the turret and the loaders in the chamber below. In a turret it is almost impossible to tell by zound that ore gun of the pair has not fired, when both are used together, as they probably were on this occasion, by means of the electric firing apparatus. The recoil is so small that in the hurry of running out a rapid firing it might not have been noticed. When the second charge was rammed home the automatic hydraulic rammer pushed it in until it brought up against the first projectile, when the automatic reversing gear was set in motion by the check and the rammer withdrawn without giving any notice, as I can find no mention of a tell tale in the apparatus. The gun was then primed, fired, and the explosion ensued. We know that the first charge was a battering one of 110 lbs. and a shell, and the second one an ordinary charge of 85 lbs. with a shell. The first charge was about 3 feet long, the first shell about 3 feet, making in all about 5 feet, which would bring the centre of the second charge about where the rupture occurred. When the gun was fired the first charge exploded, driving its shell into the second charge, which probably then exploded, breaking up the first shell and exploding its charge also. The combined effort would be enough to rupture the strongest gun ever built, or which could ever be planned, especially when the greatest strain did not come on the strongest part of it.

T. B. M. M.

Feb. 14, 1879.

Teu. 12, 1010.
It is interesting to know that the explanation of the accident iven in the English service papers just received is in strict ecord with the a priori reasoning of our correspondent, as to that the facts must be.—Ed. Journal.

Assr. Surg. B. G. McPhail. U. S. A., Prescott, A. T., sends us \$19, contributed by the following persons for the heundt of the family of the late Lieu. H. H. Benner: Major J. C. McKee, Surgeon, U. S. A., \$5; B. G. McPhail, A. A. Surgeon, \$1; Capt. Alex. Gilmore, Chapisin, U. S. A., \$1; Capt. C. P. Esgan, C. S., U. S. A., \$1; Capt. Those Byrne, 18th Infantry, U. S. A., \$1; Lieut. H. L. Haskell, 18th Infantry, U. S. A., \$1; Lieut. P. G. Wood, 18th Infantry, U. S. A., \$1; Lieut. P. G. Wood, 18th Infantry, U. S. A., \$1; Lieut. P. G. Wood, 18th Infantry, U. S. A., \$1; Lieut. P. G. Wood, 18th Infantry, U. S. A., \$1; Lieut. P. G. Wood, 18th Infantry, U. S. A., \$1; Lieut. P. G. Capt. P. G. Wood, 18th Infantry, U. S. A., \$1; Lieut. P. G. Capt. P. G. Wood, 18th Infantry, U. S. A., \$1; Lieut. P. G. Capt. P. G.

(For the Army and Navy Juornal.)

VENTILATION OF SHIPS-OF-WAR.

VENTILATION OF SHIPS-OF-WAR.

To the popular mind, which has always associated the sailor with pure sea air when on the ocean, it may be surprising to learn that perhaps there are no habitations where the atmosphere breathed by human beings is frequently so foul as under the decks of a ship-of-war, at times when the crew are berthed and all the air ports closed, and still more, when in heavy weather the hatches must be battened down. Even when lying in harbor with ports and hatches open, in calm nights, one has only to descend from the pure air of the spar or upper deck to the berth or living deck, or stand over the hatches, in order to scent the rebreathed morbid atmosphere from the men slung in their hammocks. That men exposed during sleeping hours and at other times to the influence of this fetid atmosphere—a potent cause of disease—live through long cruises without contracting serious diseases therefrom, is probably owing to their vigorous physical condition, good food, warm clothing, and to the fact that the greater portion of their time is passed in the healthy atmosphere of the upper decks.

It has been a long time since the subject of ventilating buildings occupied by numerous persons commenced to be discussed, and many years since ventilating arrangements were introduced for the purpose of supplying fresh air to crowded apartments. But, notwithstanding the fact that ships-of-war have been designed, constructed, and officered by men of more than ordinary intelligence, and that foul air has always been a cause of complaint with those who are obliged to live on board, no special care has ever been taken to provide proper means of ventilations. The only method in common use is that of introducing air into the holds and rooms by means of ventilators technically called windsalls.

An expedient adopted to prevent or remove foul odors in the holds of ships, is that of carefully cleaning.

and rooms by means of ventilators technically called windsalls.

An expedient adopted to prevent or remove foul odors in the holds of ships, is that of carefully cleaning the bilges from stem to stem, whenever they can be reached, at least once every week, and applying white-wash and frequently cloride of lime etc., to all accessible places, keeping them as dry as possible by use of the pumps, swabs, etc. But as it is scarcely ever possible for men to get under the floors from end to end of a vessel, the bilges are often only cleaned in the immediate vicinity of the scuttles, and in the fire and engine rooms, leaving the dirt, etc., elsewhere to the undisturbed evolution of poisonous gases. This being the case another expedient has been resorted to in many ships, viz., that of admitting water freely into the bottoms and removing the same by means of the steam pumps, with the view of washing out the dirt and odors. But neither of these expedients has resulted in success as to odors. The first fails because of the difficulty in reaching all parts of the skins, and the second in consequence of the want of velocity necessary to force the water and dirt with it to the pump wells.

In recent vears there has been introduced in many

the second in consequence of the want of velocity necessary to force the water and dirt with it to the pump wells.

In recent years there has been introduced in many English ships a system of inlet pipes, arranged to receive air from above decks and discharge the same into the holds and apartments. The introduction of the novel vessels of the monitor type having exceptionally low freeboards, and decks which were intended to be covered with water even in moderate weather, rendered necessary some mechanical means of supplying air to the crew as well as to the furnaces of the boilers; accordingly the ordinary fan blowers, driven by independent engines were brought into use. In this method the air is received into the vessel through a long pipe or tube, and forced by the fans through pipes leading into the holds, apartments, and firerooms, the admission of air being regulated by registers in the same way that the supply of hot air to the rooms of a dwelling house is regulated. This system, introduced by Ericsson, has been perpetuated and in an improved form is now in use in all low freeboard armored ships. But while the methods thus adopted have all been in the direction of forcing air into accessible parts of a ship, no means were provided for withdrawing the foul air, the result being a mixture of pure and impure.

With the foregoing prefatory remarks we shall attempt to describe the system of ventilation proposed by the writer nearly twenty years ago for the U. S. S. Susquehanna, and recently adopted and applied to the U. S. Richmond. In 1858 the writer returned to New York in the beautiful frigate Wabash from a cruise in the West Indies, where considerable time had been spent on the shores of the Caribbean Sea during the rainy seasons, and much discomfort and some suffering had been experienced consequent upon foul air on the berth deck and disagreeable bilge odors arising from the hold of the ship.

A short time after the arrival of the Wabash the Susquehanna arrived at the Quarantine, Staten Island, trom the

A short time after the arrival of the Wabash the Susquehanna arrived at the Quarantine, Staten Island, from the same station with yellow fever on board, having lost on the passage a number of officers and many of the crew. (It is worthy of remark here, that while the method of retting water into the ship daily and removing the same by the steam pumps was practiced in the Wabash, the of posite course was pursued in the Susquehanna, i. s., no water was let in, that which leaked in being pumped out as fast as the pumps would draw.) About this time a letter, of which the following is a copy, was sent to the Secretary of the Navy:

NAVY-TARD, NEW YORK, April 25, 1859.

Hon, J. Toucey, Secretary of the Navy :

Hon. J. Toucey, Secretary of the Nawy:

Sur: The terribly malady which occurred on board the U. S. steamer Susquehama, a year ago, resulting in the loss of many lives and a large expenditure of money, has stimulated many persons to devise means for the removal of the foul air existing in the holds of vessels. That malaria existed on board the Susquehama, and does exist in the holds of vessels remaining long in the tropics, especially during rainy seasons, seems to be acknowledged. The foul air confined below decks, together with the provisions and bilge water, is believed to produce it. The ventilation of all war steamers in which I have sailed has been so defective that after reaching warm climates the impure air from the holds penetrates the officers' quarters to an extent, which turns white paint black. The usual and only mode of effecting any remedy is to introduce

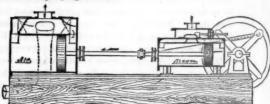
wind salls into the holds, when found convenient, that is, when the weather happens to be favorable and the duties of naval discipline will permit. It must, however, be evident to all who have studied the subject that, even if wind salls could be used every day, they are only a means of introducing some fresh air, not of removing the impure. From personal observations of several years experience on board naval steamers in warm climates. I am convinced that it is necessary to displace the foul air from the holds and berth decks very often, and for this purpose I have made a plan of an exchausting engine, a tracing showing three views of which is herewith enclosed.

rery often, and for this purpose i have many very often, and for this purpose i have many very often, and for this purpose i have many very often, and for the engine room and connected by a steam pipe to the boilers to drive it. The pipes for receiving the foul air may extend along the whole length of the ship, fore and aft, with branches leading into the holds, rooms, and berth deck, and be pierced with small holes at various points; the impure air so received into the pump to be discharged into the smoke pipe. The engine can be driven to a maximum speed of 75 revolutions per minute, at which velocity the whole volume of air below the berth deck of the Susquehanna will be exhausted in 24 minutes, and, of course, fresh air will rapidly descend to replace that removed. The engine can be operated at any time as required, when in one or two hours all the foul air and bad smell will be removed. No application for a patent or claim will be made for the plan; my object being to improve the ventilation of our ships, having myself suffered in health from the effects of impure air when cruising in warm climates. I request that the plan may be setted on board the Susquehanna; the drawing being made with a view to placing it in that vessel.

I have the honor to be, etc.,

Chief Engineer, U. S. Navy.

The system of ventilation here recommended for the Susquehanna was that of pumping the air out from all parts of the ship below decks. The mechanical means for exhausting the air were to consist of an exhausting cylinder, or air pump, 24 inches in diameter by 3 feet stroke; this pump to be actuated by a simple engine with direct attachment. The pistons of the air and seam cylinders to be fastened to one rod, as shown in the accompanying sketch: he accompanying sketch:



The air cylinder was designed to be doub'e acting, that is to say, to receive and to discharge at each end; the valves, which were to be rubber to prevent noise, being arranged as a double set for this purpose. In this design the quantity of air removed can be calculated exactly. Each revolution of the engine would extract 18½ cubic feet, or at 75 revolutions per minute 84,823 cubic feet would be removed from the ship every hour, and any less amount according to the angine. every hour, and speed of the engine.

84.833 cubic feet would be removed from the supervery hour, and any less amount according to the speed of the engine.

The apparatus was intended to be located in the engine room, there being sufficient vacant space to admit of this. The pipes for receiving the foul air were to be cylindrical in form of thin galvanized from and to be led through the ship as recommended, or otherwise as desired. Those for the officers' quarters were to lead along the sides of the ship close to the lower deck, with a branch in each room having a register attached. The foul air pumped out of the ship was to be discharged into a pipe in the centre of the smoke pipe, which central pipe, being surrounded by the hot gases from the furnaces when steaming, was intended to answer the double purpose of carrying off the heated air from the fire room and the foul air from the ship. No answer was ever received, nor was any notice taken of the letter or of the plans, by the Department. Discussions on the subject of the foul air breathed by the crews of our ships were subsequently of frequent occurrence and many remedies were from time to time suggested, but nothing accomplished.

In October, 1876, Lieut. Commander Chas. F. Goodrich delivered at the Naval Academy an excellent paper, entitled "Hygienic Notes on Ships' Bilges," in which he explained the condition of the air in the holds and between decks of our ships.

In February, 1877, Medical Inspector A. L. Gihon

paper, entitled "Hygienic Notes on Ships' Bilges," in which he explained the condition of the air in the holds and between decks of our ships.

In February, 1877, Medical Inspector A. L. Gihon read a long paper at the same place, entitled "Sanitary Commonplaces Applied to the Navy," in which the subject of atmospheric influences on human beings was treated, and facts quoted from several authors, including a paragraph from the "Principles of Human Physiology," by Wm. B. Carpenter, M. D., showing several well known cases, in which the speedy death of a number of persons confined together, has resulted from neglect of the most ordinary precautions for supplying them with air, the most notable being that of the Black Hole of Calcutta in 1756, and another of unrivalled magnitude which occurred on board the Irish steamer Londonderry, December 1st, 1848, when 150 deck passengers were crowded below with closed hatches during a stormy night and 70 of the number sufficated before morning. Still no proper system of ventilation was devised.

At last, in March, 1878, nineteen years after the writer had submitted his drawings and letter, the Secretary of the Navy appointed a Board, consisting of Medical Inspector Turner, Commander Barlett, Chief Engineer Smith and Constructor Fernald, "to examine and ascertain the best system of ventilation by mechanical means or otherwise, by which the ships of the Navy may be more perfectly ventilated than at the present time." The officers of this Board travelled to Boston and examined the Richmond.

Their report, which ignores the writer's plans, is dated at Washington, May 9th, 1878. It embodies

Boston and examined the Richmond.

Their report, which ignores the writer's plans, is dated at Washington, May 9th, 1878. It embodies fifteen pages of official paper, the first four of which are devoted to showing the necessity for the ventilation of any inhabitable abode, with quotations from Angus, Tynoall, and others to prove "the filthy condition of the atmosphere generally on shipboard which both men and officers are compelled to breath; thus inducing disease, impairing health and increasing the mortality." The second part of the report gives reasons why 'no system of ventilation can be relied upon

which depends for its action on induced currents produced by the difference of densities or the difference in the static and dynamic heads of the internal and external air;" hence the necessity for some mechanical design to be one up the circulation of air.

duced by the difference of densities or the difference in the static and dynamic heads of the internal and external air;" hence the necessity for some mechanical device to keep up the circulation of air. And for this purpose it is recommended "that a fan of the most improved type, and one that has been thoroughly tested and found efficient be adopted, ... and that this fan be fitted to exhaust the air from all parts of the ship by means of suitable pipes leading throughout, and fresh air will find its way through air ports and hatches to replace the air removed." Next follow explanations of the plans of the pipes, how and where they are to be situated, both for receiving and discharging, and the points where registers should be fitted, etc.; also some valuable recommendations as to air ducts and air ports, so long neglected in the service. Finally they recommend "one exhausting fan to each side of the ship to draw air from the pipes, and that these fans be fitted with an independent engine for driving. ... These exhaust fans can be arranged so as to be worked by hand, in case there should be no steam on the ship, by disconnecting their engine and making the necessary connection with the pump brakes."

When the orders were received by the Commandant of the Yard to carry into effect on board the Richmond the recommendations of the Board, it was ascertained that an important element in the proposed arrangement had been entirely omitted, viz., the kind of exhausting fans ("air suckers" as they are called in England), their required capacity, the volume of air to be removed in a given time, the velocities per minute any the situation of the fans in the ship. Strangeld enough it accidentally happened that, nineteen years after the writer had submitted his plans for the same system of ventilation, the subject of the mechanical means for exhausting the air from the Richmond (the first ship in the American Navy in which it was to be used, their capacity, the necessary power and how to apply it, were all decided upon, or

been decided upon, it was apparent that the recom-mendations of the Board as to independent engines— involving, of course, belts to connect them—wculd occupy much room in the ship and prove unsatisfac-tory, if not a failure. And the recommendation to work the exhausters by hand through the intervention work the exhausters by hand through the intervention of pump brakes, or any other hand contrivance, was too absurd to be considered; not only because of the impracticability of the application, but also on account of the large power necessary and for the reason that it will very frequently become important to run the exhausters all night and some times all day as well (one or two hours at a time being useless), and at different speeds according to the state of the atmosphere between decks.

speeds according to the state of the tweet tween decks.

No exhausting fans, such as are used for the ventila No exhausting tans, such as are used for the ventula-tion of buildings, being found applicable to the condi-tions required on the Richmond, it was determined to construct them. Accordingly, after consultation with Mr. B. F. Sturtevant, who has had large experience in ventilating buildings, a contract was made with him to build two exhausting fans with engines connected direct.

One is located on either side of the ship immediately forward of the officers' quarters; the space occupied by each being \$\frac{2}{2}\$ feet by \$8\$ feet, and the entire height between decks, or \$84\$ cuoic feet. The engines receive steam from the main boilers and discharge into the main exhaust; the diameter of each fan is 60 inches, by 18 inches, width of blade. The steam cylinder for each fan is 7 inches by 6 inches, the maximum revolutions being 260 with 20 pounds pressure of steam, and the horse-power at this speed—5. At the maximum speed the volume of air drawn out per minute by each exhauster is estimated at 10,000 cubic feet, but as no exact measurement of this can be made, considerable must be allowed for loss. The cost of the exhausting apparatus was \$1,500\$; the pipes to engines, \$100\$; the pipes for receiving and discharging the foul air, as recommended by the Board, \$10,776\$; total cost, \$12,276\$, exclusive of enlarged air ports. But considerable extra expense to the air pipes was occasioned by alteration unforeseen in adapting a new arrangement to an old ship. Done over again, it would cost much leas; and if built in a new ship as the work on the hull progressed, the cost would be comparatively small and the arrangement much improved upon.

As the Board did not name in their report any capa-One is located on either side of the ship immediately

and in view of this it will be proper to take an extreme possible case, and also the usual case when a great quantity of air is needed. The first will happen when in very heavy weather all ports and the upper deck hatches must be closed; the second occurs when the ship is lying quietly in harbor, the night calm and the weather warm. In the first contingency about 200 men will be on the berth deck most of the time; and, as the hatches leading into the holds are at this time supposed to be closed and the fire and engine rooms ventilated by air from trunks extending high above the upper deck, we have to supply air only to the berth deck.

The second consideration is most frequent, occurring sometimes nightly for weeks at a time; at such times an anchor watch is kept, and the night passed with about 300 men berthed below. But in this case the spar deck hatches and all the air ports may be open, consequently the large areas for the admission of air renders the necessity for its renewal less frequent. In the first contingency all the air necessary to supply that pumped out must be received through the small ventilating tubes and through the windows of the engine and fire room hatches. It will therefore be more difficult to keep up a good circulation and a proper supply of air all over the deck in the first case with 200 men than in the second with 300 men; but as the first case rarely happens while the second case frequently occure, it may be considered safe to base the capacity of the exhausting fans, and the pipes for receiving and discharging the air, on the estimate of The second consideration is most frequent, occurring

Now the authorities who have written on the quantity of fresh air required per minute or hour by each individual to replace that which such individual has rendered unfit for respiration vary so greatly in their rendered unfit for respiration vary so greatly in their scientific conclusions that even an approximate figure is difficult to establish. Arnot, in his Physics, gives one gallon per minute; others from Tredgold to Reid vary in their estimate from 3½ to 10 cubic feet. General Morin, from an analysis of all the observations made in Paris and from experiments of his own, gives per head per hour for barracks by day 1,059 cubic feet, by night 2,118 cubic feet. While Carpenter, in his "Principles of Human Physiology," says: "It is of great practical importance to determine the quantity of air which ought to be allowed for consumption by individuals confined in prisons, workhouses, etc.,

of great practical importance to determine the quantity of air which ought to be allowed for consumption by individuals confined in prisons, workhouses, etc., and for this experience seems to have fixed 800 cubic feet as the minimum that can be safely assigned."

These standards apply to natural ventilation in buildings where each person has considerable space. The question becomes more difficult when men are packed into hammocks having only standing room between decks, and where extraordinary provision must be made for constant renewal of the air. A certain amount of fresh air has to pass through a given air space in a fixed time in order to maintain the required degree of purity. The minimum size of this space will entirely depend on the rate at which it can be taken through the openings without the movement being injurious. The larger the air space the less is the necessity for the frequent renewal of air, and the less the chances of draught.

The area through the spar deck hatches of the Richmond is 172 square feet. Supposing the air ports to be closed, and taking the maximum of 2,118 cubic feet per head per hour with 300 men, and omitting the air necessary for lamps, we have 2,118 × 300 635,400, or 10,590 cubic feet per minute, to be supplied to a space of 46,918 cubic feet, minus 3,000 cubic feet occupied by the men.

The maximum cspacity of the two exhausters for

400, or 10,590 cubic feet per minute, to be supplied to a space of 46,918 cubic feet, minus 3,000 cubic feet occupied by the men.

The maximum capacity of the two exhausters for continuous work is 20,000 cubic feet per minute, or nearly double the requirement. This proves that the exhausters are unnecessarily large, but in the foregoing estimate the element of the friction of the air in the pipes has been omitted. The pressure to overcome this friction is proportional to the area or extent of the rubbing surface exposed to it.

The rubbing surface of course depends upon the circumference or perimeter of the air way and upon its length. A circular pipe or air way off its less rubbing surface for the same length than any form or shape of air way of equal sectional area.

For the ventilation of deep mines, some of which the writer visited in England and in Belgium, two different systems are employed, one being that of producing currents by the use of furnaces in the bottom of the pit, so as to maintain a column of heated air in the up cast shaft, which air is forced up by the column of cold, consequently heavier, air in the down cast shaft. The other system being that of the removal of the air by means of pumps or fans fixed at the top of the pit to exhaust the air from the up cast shaft. The fans used at the coal pits at Piges in Belgium are of 39½ feet diameter by 8 feet 2 inches wide, and the horse power of the engine is 45.

The estimate for friction in the air ways is made as follows: The friction varies directly as the rubbing surface, directly as the rupare of the velocity, and

less; and if built in a new ship as the work on the hull prograssed, the cost would be comparatively small and the urrangement much improved upon.

As the Board did not name in their report any capacity for the exhausting fans, or mention the quantity of air required to be withdrawn in any given time, it is not known how they arrived at the data from which the dimensions of the suction and discharge pipes were calculated. The man receiving or suction pipes, of which there are two connected to each exhaustre, one extending forward and the other aft (from which branches lead into all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not all parts of the ship necessary to be supplied with not necessary to be supplied with not all parts of the ship necessary to be supplied with not necessary to be supplied with not all parts of the ship necessary to be supplied with not necessary to be supplied with necessary to be supplied with not necessary to be supplied with necessary to be supplied with not necessary to be supplied with n

of the ventilating air, one square foot in sectional area. In the case of the ventilation of ships the ventilating air may be taken at the average density and temperature; the weight being about 0 0753 lbs. per cubic feet. Let F represent the frictional resistance in pounds oftered to the passage of one cubic foot of air through the given air-way at the given velocity, then we have $F = 0.0753 \times 7 = 0.000,000,000$, $58.72 \times A$.

foot of air through the given air-way at the given velocity, then we have F = 0.0753 × f = 0.000,000,000,006, 5 & V² ÷ A.

In the Richmond there are 416 feet of main pipe and 72 branches extending therefrom having sharp bends, besides 108 openings for the admission of air, with registers and wire covering to each.

The velocity of the air passing out through the discharge pipes was easily ascertained, but as any estimate of the friction of the air through the receiving pipes, with so many branches and sharp bends, would only be approximate, it was considered best in the first application to provide ample power to overcome all questionable points, even when the fans may be run for several days and nights continuously, at only half speed. It cannot be claimed that the disposition or the dimensions of the pipes, or the proportions of the exhausting apparatus are correct. The type of exhausting fan (if fans be used), may be improved upon only in proportionate aimensions. But the disposition of the air receiving ports on the berth deck are objectionable on account of their being too near the air ports, and as a consequence receive air from them (when they are open) inse and of from the ship. These defects, and a better disposition of the air discharge pipes, so as not to encumber the fire room hatches, thus shutting off light from below, besides a proper proportion of pipes and other noticeably defective points may be corrected in the ship next to be ventileted.

The system of ventilation as applied to the Rick-

The system of ventilation as applied to the Richmond is unquestionably correct, and although the details of the method employed for removing the air are not perfect, a great measure of sanitary reform has been accomplished in the Navy, and in time the subject of ventilating our ships will be as carefully considered as the supply of water and drainage is considered by engineers of cities.

When the apparatus was tested—the crew being on board—it worked admirably and almost noiselessly, the purpose for which it was designed being accomplished fully up to what the most sanguine friend of sanitary reform could have hoped for.

The air to be exhausted fi wed freely to and through the openings in the receiving pipes from all parts of the ship to be ventilated, with facility, as indicated by the currents entering the registers, while fresh air imperceptibly descended to supply that removed, and without objectionable currents, as in the case when the system of forcing air into apartments is employed. In addition to removing foul air it was found to be useful as a means of drying the deck.

On the arrival of the ship at Gubraltar from New York, after being twenty-five days at sea, Chief Engineer Baker writes: "The exhausting fans work well and are a very great comfort by supplying us with pure air. There is no smell of blige water and no odor of impure air on the berth deck at night. Moreover, dampness is prevented, the berth deck being rapidly dried after being wet from washing."

It may, therefore, be confidently stated, that the

pure air on the berth deck at night. Moreover, dampness is prevented, the berth deck being rapidly dried after being wet from washing."

It may, therefore, be confidently stated, that the Richmond is now by far the most completely ventilated ship that ever sailed under the American flag, or indeed under any flag. The officers and crew of this ship will enjoy pure air at all times, when in healthy localities, and warm apartments (heated by steam), when in cold weather; comforts unknown to the senor officers of the Navy in their cruising days.

In conclusion it will be well to remark that in 1859, when the plans for pumping air out of the Susquehanna were proposed, exhausting fans had not been introduced. It is only recently that they have been constructed so as to successfully exhaust air and also work without disagreeable humming noises. But even at the present day it is a question yet to be decided whether the exhausting fans as applied in the Richmond, or the air pump as proposed by the writer nearly twenty years ago, and recently applied, as we are informed, to the English ship-of-war Iris, is the best instrument for removing foul air from the holds and decks of ships. Either type of exhauster, if properly made and proportioned for the work required, will perform the service satisfactorily. Respectfully submitted by

Chief Engineer, U. S. Navy.

Navy yard, The Jordon Timus correspondent says:

TREBIZOND.—The London Times correspondent says:
"Goods of various sorts to the value of £900,000 now pass through this place for Persia. I met hundreds of pack animals on the road, and more than half of friem were loaded with tin canisters full of petroleum oil from—as was marked on them—New York. I see, from returns kindly supplied to me by Mr. Biliotti, that the average value of imports to Trebizond from Great Britain is about £300,000 a year. In 1874, the year in which the imports were largest, they reached a value of £575,482 for local and of £760,880 for transit to Persia. In 1877, the year in which they were lowest, the respective amounts were £155,012 and £476,190."

THE NATIONAL GUARD.

Twellerin Naw York.—The second series of wing drills were completed in this regiment last week. Cos. A. 7. I and K pared Arsenal, under the direction of Maj. Jas. H. Jones. Four commands, twelve flies front, was the equalization of the first wing, the battalion being turned over atte minutes past eight o'clock. Without delay the drill was commenced, the alignments and distances, beath column of fours and company, being of the ver all that could be desired, hardly a break occurring at the "everal changes of direction. In the close column movements, on first and fourth divisions, right and left in front, with deployments on interior divisions, the promptises of offices, care of guides, and accuracy of stew won the column of fours with deployments on interior divisions, the promptises of offices, care of guides, and accuracy of stew won the column of fours with deployment by two movements were cleanly executed, although the left guide of the second company in line was somewhat nyest as to his proper place. The lieutenant cormanding, hewever, promptly of the second column of fours was somewhat nyest as to list proper place. The lieutenant cormanding, hewever, promptly of the second column of fours was somewhat nyest as to column of your past secules. It may be a second lieutenant of the third company making his debat as a commandant, was completed without error. Formize the double column of the prompt of the rear companies, the second lieutenant of the third company making his debat as a commandant, was completed without error. Formize the double column while on the narried was promptly and rapidly executed, its deployments to he right the column of the colu

drill, review, and presentation of a new stand of colors, at Gilmore's Garden, Twenty-sixth street and Madison Avenue, on Thursday, March 20, at 8 o'clock r. x.

Ninth New York.—On assuming command of this regiment Col. Ryder instituted a series of drills—instruction in the school of the battalion—commencing with a theoretical and practical drill of the officers and non-commissioned officers. This first drill enabled him to judge of the general condition of the command in the matter of instruction, and under the evidence so obtained the past course of division drills were instituted. The first set of drills have been closed with a marked improvement on the part of officers and guides, and although defective in many points, as the following critician will show, were in the main fair. The attention of the men was of the very best description, showing that they are willing to learn; the manual in line and on the march was fair, the "order" being given without the usual bang, while the colonel was most careful to note and correct errors as they occurred. In the new series, however, he should insist on promptness at the hour of formation. Most of the companies now allow at least fifteen minutes for the accommodation of late men, and this is a most necessary point for immediate correction, for the command. On Wednes day, February 28, Cos. I, sixteen files, and K, nine files, were equalized into four commands, twelve front, single rank, for instruction by Col. Ryder. The battation was first formed for frees parade by Adjt. Housman in excellent shape at 8:30 r. x., the caremony being most creditably performed; but at its cicee the first sergeants of companies forgot to close ranks. The command was then reformed for drill, commencing with a march in column of fours, during which the step was fair and signments good, but with too much distance between the fours, a fault that was noticeable throughout the drill. Close column on first division right in front with deployment, and a reposition left in front, were executed in

remained at the front and centre instead of going to the flank. Companies right wheel and a march in column was finely executed in all respects except the step, which had increased to fully 130 to the minute. This increase of step seems to be a rale in the 9th, for as soon as a march in column is commenced the guides quicken the pace. At the halt and wheel into line the right guide of the first company failed to mark the new alignment until directed to assume his position, and then inverted this piece. The "centre forward" was finely executed, but in forming line by two movements the colonel erroneously posted markers. In this deployment the right guide of the first company was remarkably slow in coming out, and failed to invert his place, while the left guide of the first company, who should have remained in his place, jumped on to the new alignment, the while the right guide of the second company failed to put in an appearance until the command "guides post." The fours who executed the on left into line were decidedly careless, while the carry at the halt was not up to the usual perfection of this companies. It is appearance until the command "guides post." The fours who executed the on left into line were decidedly careless, while the carry at the halt was not up to the usual perfection of this companies the second company not forming line until the men were nearly beyond his coatrol. It is impossible to understand why it is movement, one of the simpossible to understand why it is one column the captain of the first company of ordered the "apport" and was blindly followed by the second and third companies. Left into line wheel was handsomely executed, and the rear into column repeated with much improvement. The formation of the double column with deployment to the right and left were performed in a first class manner, they being perhaps the best movements of the drill. The turns, at companies break from right to march to left, were most careless and ragged, while the step in column was, as usual, rapidly inc

rific practice, and Rev. Edward A. Reed, chapiain.

BIGHTH NEW YORK.—This command is directed to assemble at the State Arsonal on Friday evening, March 7, in full dress uniform, for parade, review, presentation of colors and marksman's badges. Brig.—Gen. John B. Woodward, Acting Adjutat-General State of New York, will present the colors. Brig.—Gen. Geo. W. Wingate, General Inspector of Rific Practice, will present the marksman's badges. Brig.—Gen. J. M. Varian, commanding 3d Brigade, will review the regiment. The regiment will assemble at the State Arsonal, in fatigue uniform, for drill and instruction as follows: Right wine, Thursday, March 13; Left wing, Tuesday, March 18; regiment, Friday, March 21, and Monday, March 24. Roli-call of companies 7:45 o'clock.

as follows: Right wing, Thursday, March 21, and Monday, March 24. Moil-cail of companies 7:45 o'clock.

FIFTH NEW YORK.—This command assembled at Irving Hall, Fiftcenth street and Irving place, on Monday, March 3. for review, presentation of colors, a grand reception and ball. Shortly after 8 o'clock the assembly was sounded, and at about 9 o'clock the battalion was formed with ten companies of twelve flee front, and turned over to Col. Spencer. The regiment completely encircled the room, the right of the band lapping the non-commissioned staff, and so closely were the men crowded that the few movements of the mannal executed in line were defective for want of space. Gen. Wm. G. Ward, commanding Its Brigade, accompanied by six staff officers in full uniform, here entered the square followed by two sergeants bearing the new stand of colors. Col. Spencer ordered colors and general guides to the front and centre, and then facing the general swated the presentation. Gen. Ward congratulated Col. Spencer on the fine appearance of his regiment, and commended it for its great improvement since joining the 1st Brigade. He complimented the officers on their efforts to acquire the complete knowledge of their duties, as well as the manner in which they had imparted the same to their men, and hoped that the future would still show greater improvements. He said it was his earnest desire to place the 5th on a footing second to none in the brigade, and that only through the loudstry and careful teaching of officers and the full attendance of the men could this be accomplished. He admonished the men to guard well their c-lors, and to so improve themselves in drill and discipline that the Sta'c and city would be proud of the 5th regiment. In reply, Colored Spencer thanked the general for his uniform kindness and courtesy; said that the regiment had been greatly indebted to the brigade commander and his staff for the progress made during late years, that there was still room, and plenty of it, for much greater improvement, that i

arranged in book. Form, with covers illuminated, embossed and worked with lace and gold. The entertainment was a complete success.

ARROWY INSTRUCTION IN RUYLE PRACTICE.—Col. Jaz McLeer, commanding 6th New York Brigade, has issued orders directing instruction in the property of the pro

shoot with a light gun, small charge, easy pull and no recoit the gallery practice has resulted in mere class matches for had trophles in which the best man wins, but during which a particle of instruction is given.

the gailery practice has resulted in mere class matches for badges and trophies in which the best man wina, but during which not a particle of instruction is given.

NATIONAL RIPLE ASSOCIATION.—The regular meeting of the board of directors of the National Rifle Association was held March 4. Gen. Wingste in the chair. Minutes of meeting of the board of directors of the National Rifle Association was held March 4. Gen. Wingste in the chair. Minutes of meeting of the board of directors of the National Rifle Association was held and ordered on file. Asst. Secretary Weston announced that owing to a delay in receiving a cut, the issue of the annual report was delayed until about March 15. The treasurer reported in the receipts for the mouth as \$301.89; disbursements. \$248.95; balance on hand, \$25.44 The committee on spring and fall programme reported the following programme for the spring meeting;

I. Directors' Match—Open only to directors of N. R. A., 300 yards, standing; any rifle; 5 rounds; prize, director's gold badge.

II. Short Range Match—Open to teams of four from any military company, troop or battery of U. S. Army, Navy, and Marine Corps, or the militia or National Guard of any State, or any rifle; club in the United States, or any four members of N. R. A. Numbers of teams unlimited; position, standing; any rifle; stated prizes.

IV. Military Team Match—Teams of five from any military organization in the U. S. Army, Navy, or Marine Corps. Position, standing; rifle, that which the organization may be armed with; prize, an embroidered flag; value, \$100; to be won three times.

V. Carbine Team Match—Subscription; open to teams of four from troops or batteries of N. G. S. N. Y.; 200 yards; position, standing; Remington carbine, State model.

VI. Subscription Match—Subscription; open to teams of four from roope or batteries of N. G. S. N. Y.; 200 yards; position, standing; any rifle; standing.

VII. Individual Match—Subscription in the United States; any prifle; any position any rifle club in the United States;

XIV. Subscription Mu'ch—600 yards; open to all comers; any rifie; any position.

XVI. Same—800, 900, and 1,000 yards; all comers; any rifie; any position.

XVI. Leach. Cup Match—Under the anspices of the Amateur Rifie Club; 500, 900, and 1,000 yards; any position; 15 rounds at each distance; any rifie.

XVII. Running Dear Match—Stated prizes; all comers; any rifie; sights to be on centre of the barrel; five runs, one shot to each run; rounds, seven in all matches.

The clause in match XI., regarding the any position, caused considerable discussion, but was finally adopted, the vote being 6 to 4. The finance and prize committees were directed to carry out and complete the programme and prize list. The monthly programme for April, the formal opening of the range at Greedmoor, was referred to the secretary with power. Capitain Jackson was here introduced to the board, and spoke in feeling terms of the treatment received by his team at the hands of the Board of Directors of the N. R. A., stating that they (the board) had deliberately ignored all promises made to the team of 1878, and that if this course was pursued, the riflemen of America, outside of the National Guard of the State of New York, would soon fail to recognize the N. R. A. as the parent organization. The question of change of offices was referred to the secretary. Gen. Wingate offered as a prize for monthly competition a champion gold marksman's badge, under same conditions as that of last year, and in addition Ass. Secretary Weston offered as a second prize a regimental pin or badge. Both prizes were accepted, and a vote of thanks passed to the donors. The amendment of Col. Scott, that clube of 15 from any company be admitted to membership for \$\frac{3}{2}\$ per year, and clube of twenty for \$\frac{4}{2}\$.50 was adopted, and a special meeting of the Association called for Tuesday, March 18, 4 r. m., at 23 Park Row, to ratify same. A committee of five, consisting of Major Fulton, Mr. Schermerhorn, Capt. Story, Colonels Litchfield and Scott, were appoin

Schermerhorn, Capt. Story, Colonels Lifehfield and Scott, were appointed to confer with the American team, to secure harmony and take steps toward securing an international match for this fail. The meeting then adjourned.

The Tro of Wan.—For the second time this season the boys escaped from the drudgery of "c.rry arms" and "fours right," and joined in the pleasing and health-giving pastime of the "Tug of War" in the games of the Scottish-American Athletic Club, Gilmore's Garden, February 28 and March 1. "All work and no play makes Jack a dull boy" is a time worn adage, yet true withal; so to vary the tedium of work at company and battalion drill, seven companies of the New York city regiments entered teams for the play of the Tug of War in these rames. The first of these tugs took place on February 28. The team from Co. B. 13th regiment, under C. J. Leach as captain, all composed of light weights, the whole six not weighing over 900 lbs., were pitted against the team from the 9th, Lieut. De Groot captain, nearly aouble their weight. At the crack of the pistol the little fellows quickly burrowed, but were pulled over the line, by sheer strength, in just five seconds. The second pull was between Co. B, 7th, Capt. J. A. R. Dumming, andi(O. F, 9th, Capt. Chas. Kelly. The boys of the second company made clean work of their opponents, and, despite their frantic efforts, carried them home in just two minutes seventeen seconds. Co. C of the 7th, Capt. M. A. R. Dumming, andi(O. F, 9th, Capt. Chas. Kelly. The boys of the second company made clean work of their opponents, and, despite their frantic efforts, carried them home in just two minutes seventeen seconds. Co. C of the 7th, Capt. W. C. Clark, then entered against Co. C. C. C. C. Of the 7th, Capt. W. C. Clark, then entered against Co. C. C. Th. Capt. Spragne. The men of the 5th best of the 9th's three teams, Co. D. Tlat, Capt. W. C. Clark, then entered against Co. C. C. Th. Capt. Spragne. The men of the 1st looked tough and hardy and capable of making a good resist

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MARCH 8, 1879

try battalions of 500 men each. The form would be three Canadian regiments, of two battalions, one serving in England and one at home, interchangeably every three years, on six years, enlistments. Some modifications of this plan are also suggested, and it seems worthy to be carried out in some form. Other detailed suggestions are given for militia improvement. The Lieutenant-G-meral finds praise for the alertness with which the militia has been wont to guard against Fenian invasion; but he says he is "not quite satisfied with the militia in Manitobs," who seem to be calling on a Hercules in the shape of a regular garrison to come and occupy Fort Osborne. The Canadian militia are specially well up in artiliery, both as to the supply of material and instruction in their use. General Sciby-Smith says: "Our eighteen field batteries, thirteen of which are armed with 9 pounder muzzle-loading rified gune, are in a condition of training and knowledge of gunnery ready for any rough service. They are, in a word, completely fit for service, and they owe much of their superior acquirement to the instruction given in the two gunnery schools." We think there is something quite notworthy in the degree of attention paid to this arm by the Casada militia, as compared with our own.

Commercioux.—The bill organizing a battalion of four (colored) companies of infantry has passed the Senate and will come before the House this week. The companies to comprise the battalion will be recruited in Hartford, New Haven, Fridgeport, and Norwich—one company to each of the four largest cities of the State. It will be only a question of time as to the maintenance of this organization (if organized), as it is believed that the colored population in this State is not large enough to furnish annually the requisite number of recruits to keep the ranks filled even to the minimum required by law.

The amendment to the law providing for two years' enlistments of men who have served five years and been honorably discharged has passed the Legislature.

Massachuserts.—The new "Regulations for the Massachusetts Volunteer Militia," which have been prepared by a board composed of Brig.-Gen. Hobart Moore, ist Beigade; Brig. Gen. Eben Satton, 3d Brigade; Col. Isaac F. Kingsbury, assistant adjutant-general; Col. Edward G. Stevens, assistant inspector-general, and Lieut.-Col. Thomas F. Edmands, commanding lat Corps of Cadets, has been distributed to the militia. It is a handsome book of about 550 pages, uniform in size with "Upton's Tactics," and is bound in a neat and serviceable manner with clasps. The best military authorities has been consulted in the preparation of the work, and the result is a volume which will be of great service in promoting the discipline and efficiency of the Massachusetts militia, and of great value to the National Gnard of other States. The law only provides for the distribution of enough copies to allow three to each company, one for the nee of each commissioned officer, and a proviso is made that they shall also be kept on sale by the State printers at the cost of manufacture—one dollar a copy.

LLIMOIS.—Adit.-Gen. H. Hilliard has issued the followed

ILLINOIS.—Adjt. Gen. H. Hilliard has issued the followed orders for the inspection and muster of the Illinois National Guard:

The muster of the Illinois National Guard, which will take place on the 31st day of March, 1879, is a muster upon which must be based the division of the State military fund for armory rent, fuel, lighting, and insurance on the public property. It is therefore obligatory on all commanding officers of regiments, battalions and companies that orders are issued and measures taken that this muster shall be had on that date, and that every man represented upon each company roll must be present and answer to his name, or that he is absent by proper authority, and to these facts each commanding officer of a company will be required to certify.

Commanding officers of regiments, battalions, or separate companies through their brigade commanders, will at once report all casualties that have occurred in their commands since the muster of Mirch 31, 1878. The names of all soldiers who have died, must, especially, be fully written out. The object of this is to correct the muster roll on file in this office, on which the basis of division is made.

The name of an enlisted man cannot be dropped from the reliexcept through orders issued by competent authority.

New Jebert.—General Orders No. 1, 1879, Adjutant-General's

The name of an enlisted man cannot be dropped from the rell except through orders issued by competent authority.

New Jerry — General Orders No. 1, 1879, Adjutant-General's Office, directs the major-general commanding the National Gaard to immediately detail a competent officer to instruct the military forces of the State in rifle practice, at the various armories. S. O. No. 4, H. Q. N. G. In compliance with G. O. No. 1, Adjutant-General's Office, current series, Col. D. Lodor, assistant adjutant-general, is temporarily detailed as instructor of rifle practice. He will commence his duties without delay, and will assembly the officers and men of the several organizations for practical and theoretical instruction at such dates and places as may be hereafter announced. The Q. M. General's Department will furnish necessary ammunition, supplies, and transportation.

The following amendments to the "Act for the organization of the National Guard" have been introduced, viz : One general inspector of rifle practice on the Go-ernor's staff; one inspector of rifle practice on the Go-ernor's staff; one inspector of rifle practice with the rank of brigadier-general, who shall also be inspector of rifle practice on the Go-ernor's staff; one inspector of rifle practice with the rank of lieutenant-colonel, to be appointed by the Commander-in-Chief, The Governor is authorized, upon the recommendation of the State military board, to offer prizes for skill in marksmanship among the members of the National Guard. That the National Guard be required to attend an encampment once in three years, which encampment shall continue at least five consecutive days

Each regimental armory in the State is to be at once supplied with targets, and all the paraphernalia of a first class rifle gallery—ammunition, etc., without cost to the regiments.

The New Jersey State international and inter-State team is to be organized in May next, and practice as a team during the year.

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The New Jersey State international and inter-State team is to be organized in May next, and practice as a team during the year.

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The new Persey State international will be presented with marks—marked the present of the regiment will pared as 4 defellows Hail, Heboken, in full dress uniform on that occasion. Assembly promptly at 8 o'clock. Gen. Plume and staff will be present. The non-commissioned officers of this regiment will assemble at Odd Fellows Hail, in fatigue uniform, for drill and instruction, on the following evenings at 8 o'clock: Friday, March 31, 32, April 4, 11. Lieut.-Col. Joel Green will be the instructor, assisted by Lieutz. McCullough and Curry. Punctual attendance at these drills will be insisted upon, and absence, without a good excuse, will be considered aufficient reason for a reduction to the ranks?

Tae following non-commissioned officers have been reduced to the ranks for neglect of duty. Sergeant Samuel Taylor and Corporal Christian Soficks, Co. B Empany room in Odd Fellows and Corporal Christian Soficks, Co. B Empany room in Odd Fellows and the company to some extent. Co. B have been offered a face of the dingy quarters now occupied. The new room is a decided improvement, and will assist the membership roll of the company to some extent. Co. B have been offered a face of the dingy quarters now occupied. The new room is a decided improvement, and will assist the membership roll of the company to some extent. Co. B have been offered a face of the dingy quarters now occupied. The new room is a decided improvement, and will assist the membership roll of the company of the company of the some part of the company of the

the company team of six hold the colonel's trophy (offered to the best company rific team last year). With the material this company possesses, they ought to be able to show a first class company posses team of 12 men.

VARIOUS ITEMS.

— First Sergeant Wm. L. Franz has been chosen second lieumant Co. E, 13th New York.

— George Warner, Gatling Battery N, 11th New York Brigade, won the second contest for the Beebe medal.

—Onders have been issued for the energial of Cos. I and K, 8th New York, the new company to be known as I. This makes the 6th an eight company regiment.

—The Governor has signed the bill authorising the 7th New York to issue bonds sufficient to secure the completion of its new yengre.

new armory.

— CAFT. A. T. Decker won first place in the competition—first class—of the 18th New York Hifle Club, March 1.

— THE 51st New York (Syracuse) received the marksman's badges, 1878, on March 7. The ceremonies consisted of a review and dress parade, the presentation of badges and "Tiffany prize" to Co. D.

prize" to Co. D.

The 35th New York Battalion (Watertown) is working hard to perfect itself in all the requirements of a first class organization. Officers' driils, theoretical and practical will be held during this month, while the instruction of the several companies is supervised by the field officers.

The 47th New York want the army blouse for use at company drills, and Col. Brownell has made requisition for 600. If the State would furnish these blouses for the use of the men at Creedmoor during the regimental tours of rifle practice, much money might be saved in the purchase of new uniforms, not to speak of the great comfort to the men. It is to be hoped that the colonels of the ist and 2d Divisions will follow the example of Col. Brownell.

Gran. Husted has presented a bill to the Assembly allowing

of Col. Brownell.

— Gsw. Husted has presented a bill to the Assembly allowing the 7th, 18th, 23d and 23d regiments, New York, to retain their present equipments and overcoats, and draw from the State Controller their money value. Three of the commands above named are fully equipped, while one only requires the overcoats. Should this bill pass, these equipments, etc., would of course become State property and must be accounted for as such.

— The walking fever has again broken out in the National Guard, this time in the 9th New York, Lieut. DeGroot and Sergits. Halloran and Heatherington being matched in a long distance walk, New York city to New Hamburgh, on the Hudston.

on.

— The total number now receiving benefit from the Soldier's Home at Newark, N. J., is 412; of this number, 107 are immates of the Home. The Home cost \$39,377.63 last year. The average cost of each beneficiary per day is twenty-seven cents.

— On Monday, March 10, the drum corps of the 5th New York, under Drum-Major Chas. Berchet, will give its twenty-first annual exhibition drill and hop at the regimental armory, 139 West Twenty-third street.

— The "walking fever" has even reached the cavalry, Priv. William Thompson, of Troop B, Washington Greya, being matched to waik 25 miles against time at Hempstead, L. L., next week.

matched to walk 25 miles against time at Hempstesd, L. I., next week.

— The drum corps of the 7ist New York, Major Nat T. Jenks commanding, held a pleasant reception at the Lexington Avenue Opera House February 26, and in conjunction with the Chrestomathean Dramatic Club gave an excellent representation of the farces of "Box and Cox" and "Ict on parle francis." The recitation of "An Old Man's Prayer," an episode of the late rebellion, by Capt. S. Curtis, Co. B, was delivered with much pathos and power. Dancing followed the entertainment.

— THE 5th New York will drill at the State Arsenal Friday March 28, and Monday, April 14.

— THE 7th New York will drill in the school of the battallon at their armory as follows: Cos. D and G, March 17, April 7; C and K, March 12, April 9; H and A, March 14, April 4; E and F, March 18, April 8; I and B, March 13, April 10. Assembly at SF. M.

— THE sannusl ba'l of Co. D, 7ist N. Y., Captain Wm. C. Clark, at Irving Hall, wednesday, March 5, was one of the most enjoyable entertainments of the year. The dancing floor was well filled during the night, while the lobbies, gallery and boxes were occupied by those who could not find room on the floor. The hall was most tastefully decorated, while Capt. Clark and the committees were ubiquitous in tending to the wants of their guests.

ANSWERS TO CORRESPONDENTS.

The editor of the ARRY AND NATY JOURNAL must decline to decide points between officers and the men of their commands. No attention poid to fetibious signatures, unless accompanied by real name and address of writer

COLONEL, Buffalo, New York, asks: Should the command "charge cartridge" be given after the command "load" when not drilling by detail? Please settle this question in dispute if possible, the decision to be made in the McQuade Manual. Answess.—No.

possible, the decision to be made in the McQuade Manual. Answers.—No.

CLAUDIUS asks: How many officials are employed at present at the Sodier's Home, Hampton, Va., how classified and by whom paid, and what is the average number of numates for the year ending December, 1878? Asswer.—There are three officials at Solider's Home, Hampton, Va., P. T. Woodin, governor; G. H. Marmion, doctor; and Harry Keys, quartermaster—are paid by a Board of Management from appropriations made annually by Congress. and from a special fund. Gen B. F. Batler is understood to be chairman of the Board of Management. Average number of inmates for the year ending December 31, 1876, is 610. Frast REGIMENT, C. N. G., writes: 1. Par. 119, Upton's Infantry Tactics, provides for the double time movement at arms port, or trail arms. Suppose the company is marching in line at quick time, arms at carry, and the command be given, charge bayonet, followed by double time, march, should not the pieces be brought to the right shoulder? 2. What par. in Upton authorizes the charge bayonet when executing the double time; or the double time when charge bayonets? Answer.—1. It is not intended that charge bayonets when executing the double time; or the double time when charge bayonets? Asswer.—1. It is not intended that charge bayonets should be executed at double time. Arms port should be used instead. 2. See par. 87, Tactics.

CAVALEY, BUFFALO, N. Y., asks: What is the regulation sword.

to his post until after the carry arms is executed. Your reply to the above will oblige many. Answan.—I. The commissioned staff only draw swords on occasions of ocremony or when transmitting orders or commands of their chief. Except the adjutant, who is always on duty with the column, the staff are not on duty unless specially ordered, therefore need not draw swords. See par. 760, Tactics. 2. Yes. 3. The adjutant obeys the order to take his post at once. The Tactics do not say, after the colonel commands carry arms, that the adjutant then faces about, etc., but assumes that he knows his duty and will immediately perform it.

Guano, Fort Fetterman, W. T., asks: A non-commissioned officer of cavalry being on post guard and armed with the sabre only, No. 1 (sentry in front of the guant house) seeing the officer of the day approach calls out, "Turn out the guard, officer of the day." The officer replies, "Never mind the guard, call the sergeant." Now the guard not being turned oat, does the sergeant draw his sabre and salute with it the officer of the day when he reports to him for such orders as he may desire to communicate, or does he allow his sabre to remain in the scabbard and make the prescribed salute with his hand? Does a non-commissioned officer of cavalry, on guard, and armed with the sabre only, draw his sabre when called by No. 1 when the guard is not turned out and pastaded and he as simply called to receive additional instructions from the officer of the day? Upton says that the sabre is in the scabbard or drawn. Answas.—The sergeant of the guard is on duty for twenty four hours, and in the absence of the officer of the guard would commund asme. He should, therefore, when reporting to the officer of the day have his sabre drawn and salute with same.

THE Ratskaua Pracada confirms the statement "that the dam of the Oxus at Bend had been broken, and that consequently there was a flow of water into the Usboi, an old bed of the river." This the Calcutta Proneer regards as the most important political event that has happened recently in Central Asia. It will mean most likely that the frontiers of Russia and Asia are advanced and her communications improved more in a single year than they have been in twenty.

mean most likely that the frontiers of Russis and Asis are advanced and her com munications improved more in a single year than they have been in twenty.

CAPTAIN KOUROPATKINE, who served on the staff of General Skobeleft throughout the late war, has published in recent numbers of the "Vojannyi Sbornik a graphic and instructive account of the way in which the Russian trenches were advanced night after night during the siege operations carried on against the Turkish redoubts round Plevaa after the failure of the three attempts made to carry them by open assaul. The exact line along which the trenches were to be excavated having been determined beforehand by engineer officers, the companies forming the Russian working parties paraded immediately after it had become quite dark, each man carrying an entrenching implement as well as his rifle and bayonet. When some little distance from the spot where the trench was to be dug, each company was extended into a line of a single rank; two or three parties, of three or four meneach, were sent forward 200 or 300 paces, and, thus preceded, the working party advanced as quietly apossible, each company being followed by a small squad of sick-bearers carrying litters, and under the charge of a non-commissioned officer. Neither sm king nor talking was allowed in the ranks, and the men were especially cautioned not to allow their tools and rifles to clash together. Arrived at the spot where the work was to be begun, the line of workmen, halted by a whispered word of command, passed along the rank, faced about without any further order being given, and piled arms noiselessly. Another whispered order, and each men dug in front of him a shallow groove in the ground, the grooves joining one another, and so forming continuous line which marked where the rear of the trench was to be. Tha boundaries of the excavation thus defined, the work was at once hegun, each man digging a hole for himself, so as to obtain the greatest amount of cover possible in the shortest time, and all throwin

tire, and began to talk, and even dispute, until this brought upon them the enemy's fire.

A LECTURE was delivered before the English Unite of Service Institution, Jan. 24, by Vice-Admiral G. G. Randolph, C.B., on "The Relative Importance of Broadside and End-on Fire Tactically Considered," if effect the relative effective value of three to one in favor of shots aimed at the side. The power to rake an enemy was shorn of the extreme value at one time attached to it; for the object of ironclade, against which artillery was comparatively weak, must be to ram. The true art in a naval battle was to throw a pre ponderating force upon some important point of the enemy's position in line. It was not a scientific or good tactic to throw one's whole force headlong into collision with the enemy, as in Nelson's days. If each ship's ram was a perfect success the fight was at an end; but this supposition was utoplan, and in the confusion and partial failure resulting from the first attack end-on fire became invaluable. With regard to forts the best method of attacking them was to pass and repass in a circle at various distances to disconcert the enemy's range; but this must depend on the locality. An end-on fire could be maintained much longer and more efficiently by a given number of broadside ones, and with a tithe of the risk of damage to the ships. Naval actions would not, in future, be determined by the broadside fire, though it would play a most important part. The combit would rather be decided by *kill in manouvre—by the sharp, intelligent eye to discover, the ready presence of raind to command, and the perfect discipline to execute the right movement at the right time. When the skill was found superior on the part of the broadsides, the broadsides would prevail in spite of their disadvantages.

RECENT tests, at Aldershot, of the Martini-Henry against guns in the open or in gun pits, were conclusive in favor of the rifle. A party of twenty from the School of Musketry in seven minutes fired 384 rounds at 1,400 yards, made eighteen hits, and killed or wounded eight out of nine gunners standing in the open. A further experiment was made by a nicket party of ten men of the 45th Regiment firing (at Hythe) ten rounds independent, and ten by volleys at ten gunners in a gun pit at 700 yards. They made sixty-four hits and killed or wounded all the gunners. Previous to their going into the Afghan campaign, the Peabody-Martini rifles of the Rifle Brigade were sighted for 2,000 yards in volley firing against a number of targets arranged to represent an approaching enemy. They were found perfectly effective at 2,100 yards.

The Army and Navy Gazette of January 18 remarks that it is very much to be regretted that the force which had just been sent to re-enforce Lord Chelmsford should have consisted in part of 500 raw recruits who had never fired off lead-loaded muskets.

The British Admiralty has issued a code of instructives. RECENT tests, at Aldershot, of the Martini-Henry gainst guus in the open or in gun pits, were conclusive

The British Admiralty has issued a code of instructions to naval gunnery men, whereby similar accidents to that which occurred on board the Thunderer will be prevented. Directions are given for ascertaining before firing if projectiles are "home" when the rammer is worked by the hydraulic process.

A CONVENTION has (according to a telegram from Constantinople) been concluded between England and Turkey, by which the former sgrees to purchase the State lands in Cyprus, the Sultan retaining his private estates in the island, which are of large extent.

State lands in Cyprus, the Sultan retaining his private estates in the island, which are of large extent.

Accomplied to the plan of 1873 there are still wanting of complete the German fleet one ironclad corvette, eleven ironclad gunboats, three corvettes, and three are incompleted to the season of the party sending most object on the course of the present year.

The material out of which they manufacture, the stories told to those much-believing sailors, "the stories told to those much-believing sailors, "the marines," is shown by the report recently brought to Mew York by Capitain Hay, of the British suij Tarantula, that out the 6th of February, somewhere be tween the Caribbean Sea and the Bermudas, he found himsiff surrounded by a mysterious fleet of naval vessels He said, as reported, "they were all steamers, some of them with two funnels, and all any on the port bow except one. Their yards and running rigging were braced and trimmed in regular manord-war fashior. None of them hailed us nor paid any attention to us. Two of the sail were ironclad rams, I shoull judge from the way in which their bows aloned at an angle of 45 deg. It was a magnificent sight. There was a full moon, and the sea was sfull as a mill pond. Although they were sill three masters, none of them had any canvas set." The only foun lation for this appears to be in the information which comes from Marcaibob, staing that fire arms of regarded as colors, but must be foundation, and the sea was as full as a mill pond. Although they were sill three masters, none of them had any canvas set." The only foun hation for this appears to be in the information which comes from Marcaibob, staing that fire was a full moon, and the sea was as full sa a mill pond. Although they were sill three masters, none of them had any canvas set." The only foun hation for this appears to be in the information which come

An agreement has been entered into between Great Britain and Portugal, we learn from the Standard, for joint operations in putting a check to the traffic in slaves which is known to exist between the Mozambique Coast and the Island of Madagascar.

THE German government has under consideration a proposal for the adoption of an international code of regulations for ships at sea, with a view to preventing collisions. One of the regulations suggested is that in the English Channel, from the Isle of Wight to the Goodwin Sands, vessels shall, under all circumstances, sail at slow speed.

As soowing the state of poverty at present existing in Berlin, M. Zimmermann, a member of the German Parliament, has pointed out (we learn from the Paris correspondent of the Standard) that in the course of one year two hundred thousand persons have been prosecuted for non-payment of income-tax, and that in the great majority of cases a seizure of the effects of the defaulters yielded nothing. More than one hundred and twenty thousand persons were prosecuted for having failed to pay their rent.

for having failed to pay their rent.

The Indian Government has recognised the value of the erbswurst as a ration for the soldier on a campaign, and is sending out a large supply to Afghanistan. The Army and Navy Gazette, says: We need only go back to the Franco-Prussian war to see the enormous advantage the erbswurst give to the German soldier over his less fortunate foe, who, not being similarly provided, usually had to fight for days together on an empty stomach, the French Commissariat being "nowhere," whilst the German troops required a halt of a few minutes to cook a palatable ho. meal, each individual forming his own Commissariat. It resolves itself into this fact, that all our arms of precision are rendered perfectly futile unless the soldier has the food supply to enable him to carry out the advantages that these rapid shooting weapors place within his reach.

In an interesting paper on Russian Artillery Tactics,

by a handful of revolutionists and carrying away five of the pilots of Maracaibo as well as the Eoglish tugboat Livingstone. They proposed, so long as their ammunition lasted, to bombard Laguayra."

An agreement has been entered into between Great these experiences is the obvious one that a thorough the last and Portugal, we learn from the Standard, for the last importance to the welfare of that arm of the service.

Much is said from time to time about the institution of grand new hotels. Still the old favorites retain their strong grip on the public regard. Among these, none is worthy to be named with the "St. Nicholas," which title is so dear to New Yorkers, so grateful and suggestive to myriads all over the land, for splendid cheer and cordial, old-fashioned hospitality. The cuisine has always been celebrated, and retains all its pristine excellence, and the furnishing is the perfection of elegant good taste. The stranger cannot better serve his pocket and his case than by making this his New York home.

A WONDERPUL DISCOVERY .- Carboline, a deodorized extract of petroleum, is absolutely the only article that will restore hair on bald heads, is an elegant dressing, and contains not a particle of lead, sulphur, or other deleterious drugs. Sold by

Chew JACKSON'S BEST Sweet Navy Tobacco

MARRIED.

[Announcements of Marriages and Births FIFTY CERTS each, and the signature and address of the party sending must ecompany the notice.]

HENPHILL.—At Fort Supply, I. T., February 10, 1879, to the rife of Captain W. C. Hemphill, 4th U. S. Cavalry, a day ther.

Brief announcements will be inserted under this head without charge. Obtinary notices and resolutions should be paid for at the rate of two cents a word, unless it is intended to leave the question of their insertion to the discretion of the Ridtor.

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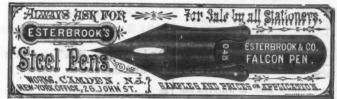
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New York Life Insurance Co.,

Office, Nos. 346 & 348 Broadway. January 1, 1879.

Amount of Net Cash Assets, January 1, 1878, - - \$34,452,905 29 REVENUE ACCOUNT.

 Premiums received and deferred
 \$6, 121,856.04

 Less deterred premiums Jan. 1, 1978.
 386, 289 26-\$5,725,566.78

 Interest received and accrued
 2,244,569.48

 Less interest secrued Jan. 1, 1878.
 815,895 35-\$1,948,665 18-\$7,674,231 91

....\$42,127,137.20 DISBURSEMENT ACCOUNT. tions to same.

Life annuities and reinsurances.

Life annuities and reinsurances.

Dividends and returned premiums on cancelled policies.

Commissions, brokerages, agency expenses and physicians' fees
Taxes, office and law expenses, salaries, advertising, printing, &c
Reduction of values on United States and other stocks.

Profit and loss account. ,288,674 25 518,809 94 417,259,78 88,635.00 8,568,98 —\$5,913,679.59

ASSETS. Real estate

Bonds and mortgages, first lien on real estate (buildings thereon insured for \$12,860,000 and the policies assigned to the company as
additional collateral security)

Loans on existing policies (the reserve held by the company on these
policies amounts to \$3,225,000).

Quarterly and semi-annual premiums on existing policies, due subsequant to January 1, 1879

Premiums on existing policies in course of transmission and collection (estimated reserve on these policies, \$590,000; (included in
liabilities). 621,984.98 379,839 09 146,834.75 88,036.91 806,225.93 —\$36,218,457.61

693 837.65

CASH ASSETS, January 1, 1879.

Appropriated as follows:
Adjusted losses, due subsequent to January 1, 1879.
R ported losses, awaiting proof, &c.
Matured ecodowments, due and unpaid.
Reserved for reinsurance on exis ing policies; participating insurance at 4 per cent. Carlisle net premium; nonparticipating at 5 per cent.
Carlisle net premium.
Reserved for contingent liabilities to Toutine Dividend Fund, over and above a 4 per cent. reserve on existing policies of that class.
Divisible surplus at 4 per cent.

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